

TECHSPEC<sup>®</sup> 9.0mm Diameter x -27 FL, NIR I, Inked, Plano-Concave Lens



Stock **#49-524-INK** 1 In Stock

☐ [Other Coating Options](#)

-

1

+

€57<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | €57,00 each                   |
| Qty 10-25      | €51,00 each                   |
| Qty 26-49      | €45,75 each                   |
| Need More?     | <a href="#">Request Quote</a> |

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Plano-Concave Lens

Type:

Physical & Mechanical Properties

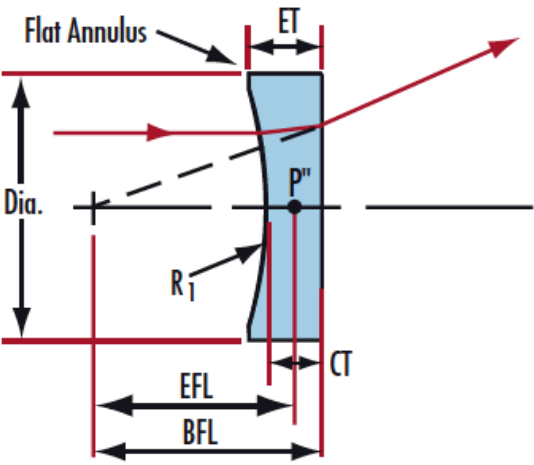
|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| 9.00 ±0.025                           | Diameter (mm):                                    |
| Protective as needed                  | Bevel:                                            |
| 3.00                                  | Center Thickness CT (mm):                         |
| ±0.05                                 | Center Thickness Tolerance (mm):                  |
| <1                                    | Centering (arcmin):                               |
| 8.1                                   | Clear Aperture CA (mm):                           |
| 3.42                                  | Edge Thickness ET (mm):                           |
| Optical Properties                    |                                                   |
| -27.00                                | Effective Focal Length EFL (mm):                  |
| N-SF11                                | Substrate: <input type="text"/>                   |
| 3.00                                  | f/#:                                              |
| 0.17                                  | Numerical Aperture NA:                            |
| NIR I (600-1050nm)                    | Coating:                                          |
| 600 - 1050                            | Wavelength Range (nm):                            |
| -28.68                                | Back Focal Length BFL (mm):                       |
| R <sub>avg</sub> ≤0.5% @ 600 - 1050nm | Coating Specification:                            |
| 587.6                                 | Focal Length Specification Wavelength (nm):       |
| ±1                                    | Focal Length Tolerance (%):                       |
| -21.19                                | Radius R <sub>1</sub> (mm):                       |
| 40-20                                 | Surface Quality:                                  |
| 7 J/cm <sup>2</sup> @ 1064nm, 10ns    | Damage Threshold, By Design: <input type="text"/> |
| 1.5λ                                  | Power (P-V) @ 632.8nm:                            |
| λ/4                                   | Irregularity (P-V) @ 632.8nm:                     |
| Regulatory Compliance                 |                                                   |
| View                                  | Certificate of Conformance:                       |

## Product Details

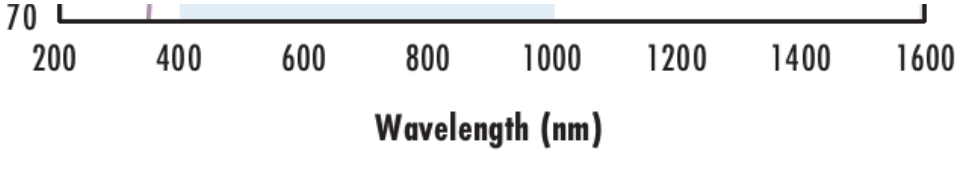
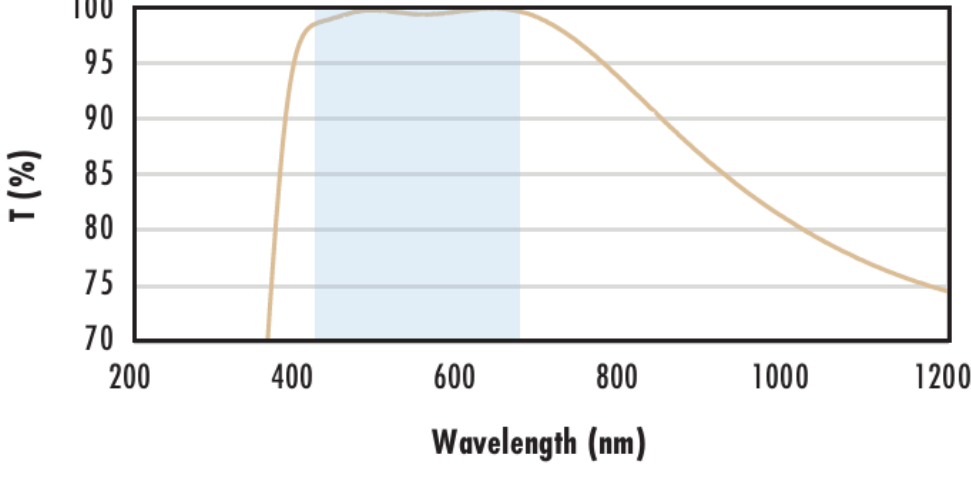
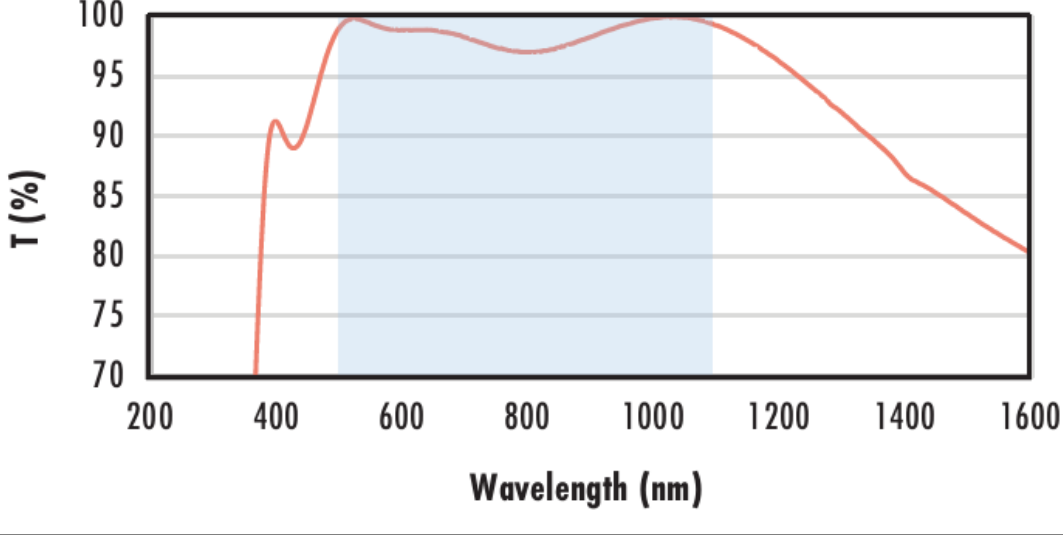
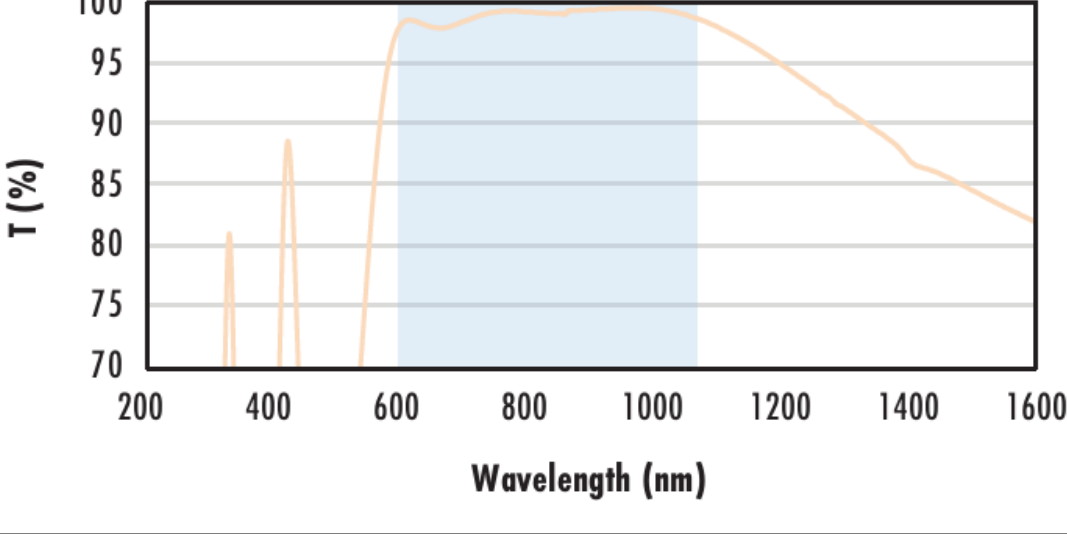
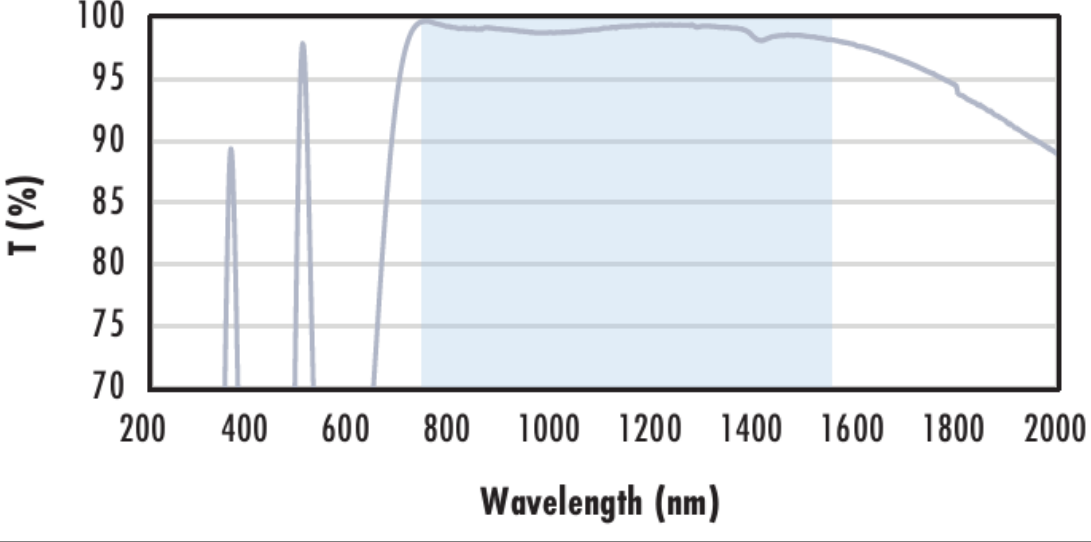
- AR Coated to Provide <0.5% Reflectance per Surface for 600 - 1050nm
- Designed for 0° Angle of Incidence
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [YAG-BBAR](#), and [NIR II](#)

TECHSPEC® NIR I Coated Plano-Concave (PCV) Lenses are designed to bend parallel input rays to diverge from one another on the output side of the lens causing this lens to have a negative focal length. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Plano-Concave (PCV) lenses are commonly used in a variety of applications including image reduction, beam expansion and telescopes. TECHSPEC® NIR I Coated Plano-Concave (PCV) Lenses offer optimal performance in the 600nm to 1050nm range. These lenses are also available [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [YAG-BBAR](#), or with [NIR II](#) AR coating options.

## Technical Information



| N-BK7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-----|----|-----|----|-----|----|-----|----|------|----|------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|----|------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Uncoated N-BK7 Typical Transmission</div> <table border="1"><caption>Approximate data for Uncoated N-BK7 Typical Transmission</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>400</td><td>92</td></tr><tr><td>600</td><td>93</td></tr><tr><td>800</td><td>93</td></tr><tr><td>1000</td><td>93</td></tr><tr><td>1200</td><td>93</td></tr><tr><td>1400</td><td>92</td></tr><tr><td>1600</td><td>93</td></tr><tr><td>1800</td><td>92</td></tr><tr><td>2000</td><td>91</td></tr><tr><td>2200</td><td>88</td></tr></tbody></table>                              | Wavelength (nm)    | Transmission T (%) | 200 | 70 | 400 | 92 | 600 | 93 | 800 | 93 | 1000 | 93 | 1200 | 93 | 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 92 | 1600 | 93 | 1800                                                                                                                                                                                                                                                                                                                                                                                                          | 92 | 2000 | 91 | 2200 | 88 | <p>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                              |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Transmission T (%) |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 70                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 92                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 92                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 92                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 91                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 88                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</div> <table border="1"><caption>Approximate data for N-BK7 with MgF2 Coating Typical Transmission</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>400</td><td>95</td></tr><tr><td>600</td><td>98</td></tr><tr><td>800</td><td>95</td></tr><tr><td>1000</td><td>94</td></tr><tr><td>1200</td><td>94</td></tr><tr><td>1400</td><td>93</td></tr><tr><td>1600</td><td>93</td></tr><tr><td>1800</td><td>93</td></tr><tr><td>2000</td><td>92</td></tr><tr><td>2200</td><td>90</td></tr></tbody></table> | Wavelength (nm)    | Transmission T (%) | 200 | 70 | 400 | 95 | 600 | 98 | 800 | 95 | 1000 | 94 | 1200 | 94 | 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 93 | 1600 | 93 | 1800                                                                                                                                                                                                                                                                                                                                                                                                          | 93 | 2000 | 92 | 2200 | 90 | <p>Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Transmission T (%) |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 70                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 95                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 95                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 94                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 94                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 92                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 90                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div>N-BK7 with VIS-EXT Coating Typical Transmission</div> <table border="1"><caption>Approximate data for N-BK7 with VIS-EXT Coating Typical Transmission</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>350</td><td>95</td></tr><tr><td>400</td><td>98</td></tr><tr><td>600</td><td>98</td></tr><tr><td>700</td><td>98</td></tr><tr><td>800</td><td>95</td></tr><tr><td>1000</td><td>85</td></tr><tr><td>1200</td><td>78</td></tr></tbody></table>                                                                                                           | Wavelength (nm)    | Transmission T (%) | 200 | 70 | 350 | 95 | 400 | 98 | 600 | 98 | 700  | 98 | 800  | 95 | 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 85 | 1200 | 78 | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Transmission T (%) |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 70                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 95                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 95                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 85                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 78                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div>N-BK7 with VIS-NIR Coating Typical Transmission</div> <table border="1"><caption>Approximate data for N-BK7 with VIS-NIR Coating Typical Transmission</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>75</td></tr><tr><td>400</td><td>98</td></tr><tr><td>600</td><td>98</td></tr><tr><td>800</td><td>98</td></tr><tr><td>1000</td><td>95</td></tr><tr><td>1200</td><td>78</td></tr></tbody></table>                                                                                                                                                                           | Wavelength (nm)    | Transmission T (%) | 200 | 75 | 400 | 98 | 600 | 98 | 800 | 98 | 1000 | 95 | 1200 | 78 | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Transmission T (%) |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 95                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 78                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>     | <p>Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                        |
| <p><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math><br/><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math><br/><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>           |
| <p><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>    | <p>Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                     |
| <p><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p>   | <p>Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.5\% @ 750 - 800\text{nm}</math><br/><math>R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}</math><br/><math>R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |

# Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
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- Scalable production—from prototype to volume

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## Compatible Mounts