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## 632.8nm, $\lambda/2$ Precision Zero Order Retarder



Stock **#49-211** **2 In Stock**

- 1 + €755.<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €755,00 each                  |
| Qty 6+         | €600,00 each                  |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type: Polymer Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm): 10.16

|        |                             |
|--------|-----------------------------|
| 25.40  | Diameter (mm):              |
| ±0.508 | Thickness Tolerance (mm):   |
| ±0.127 | Dimensional Tolerance (mm): |

|                            |               |
|----------------------------|---------------|
| Birefringent Polymer Stack | Construction: |
|----------------------------|---------------|

Optical Properties

|       |                             |
|-------|-----------------------------|
| 632.8 | Design Wavelength DWL (nm): |
|-------|-----------------------------|

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Polymer Film on <a href="#">N-BK7</a> | Substrate: <input type="checkbox"/> |
|---------------------------------------|-------------------------------------|

|     |                 |
|-----|-----------------|
| 0.5 | Reflection (%): |
|-----|-----------------|

|             |             |
|-------------|-------------|
| $\lambda/2$ | Retardance: |
|-------------|-------------|

|       |                  |
|-------|------------------|
| 40-20 | Surface Quality: |
|-------|------------------|

|                            |                             |
|----------------------------|-----------------------------|
| $\leq \lambda/5$ @ 632.8nm | Transmitted Wavefront, RMS: |
|----------------------------|-----------------------------|

|               |                       |
|---------------|-----------------------|
| $\lambda/350$ | Retardance Tolerance: |
|---------------|-----------------------|

|      |                          |
|------|--------------------------|
| 1.00 | Beam Deviation (arcmin): |
|------|--------------------------|

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| 500 W/cm <sup>2</sup> | Damage Threshold, By Design: <input type="checkbox"/> |
|-----------------------|-------------------------------------------------------|

|   |                   |
|---|-------------------|
| 0 | Retardance Order: |
|---|-------------------|

Threading & Mounting

|      |                       |
|------|-----------------------|
| 6.35 | Mount Thickness (mm): |
|------|-----------------------|

Environmental & Durability Factors

|            |                             |
|------------|-----------------------------|
| -20 to +50 | Operating Temperature (°C): |
|------------|-----------------------------|

Regulatory Compliance

|                           |            |
|---------------------------|------------|
| <a href="#">Compliant</a> | RoHS 2015: |
|---------------------------|------------|

|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | Certificate of Conformance: |
|----------------------|-----------------------------|

|                           |            |
|---------------------------|------------|
| <a href="#">Compliant</a> | REACH 241: |
|---------------------------|------------|

Product Details

- $\lambda/4$  and  $\lambda/2$  Retardance
- Excellent Angular Field of View
- Birefringent Polymer Stack
- High Damage Threshold of 500 W/cm<sup>2</sup>

Precision Zero Order Waveplates (Retarders) feature carefully aligned birefringent polymer sheets laminated between two precision N-BK7 windows, and are available in standard  $\lambda/4$  and  $\lambda/2$  options for common visible and NIR wavelengths. These polymer waveplates (retarders) offer excellent angular field of view because they are true zero-order retarders. Also, they will experience less than 1% retardance change over a  $\pm 10^\circ$  angle of incidence. Each Precision Zero Order Waveplates (Retarders) is mounted in a metal ring with the fast axis clearly marked.