

TECHSPEC<sup>®</sup> 12.5mm Dia. Linear Plastic Polarizer (XP42-200)



Stock #85-917 20+ In Stock

-

1

+

€26<sup>.75</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €26,75 each                   |
| Qty 6-49       | €21,20 each                   |
| Qty 50-99      | €20,10 each                   |
| Need More?     | <a href="#">Request Quote</a> |

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 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Linear Polarizer

Type:

Physical & Mechanical Properties

12.50 +0.0/-0.3

Diameter (mm):

2.22 ±0.25

Thickness (mm):

|                                               |  |                                     |
|-----------------------------------------------|--|-------------------------------------|
| Polarizing Film on PMMA                       |  | Construction:                       |
| Optical Properties                            |  |                                     |
| 9000:1                                        |  | Extinction Ratio:                   |
| XP42-200 on PMMA                              |  | Substrate: <input type="checkbox"/> |
| Single: 42<br>Parallel: 36<br>Crossed: <0.004 |  | Transmission (%):                   |
| 400 - 700                                     |  | Wavelength Range (nm):              |
| >99.98                                        |  | Polarization Efficiency (%):        |
| Environmental & Durability Factors            |  |                                     |
| -40 to +80                                    |  | Operating Temperature (°C):         |
| Regulatory Compliance                         |  |                                     |
| Compliant                                     |  | RoHS 2015:                          |
| View                                          |  | Certificate of Conformance:         |
| Compliant                                     |  | Reach 235:                          |

## Product Details

- Excellent Extinction Ratio of 9000:1
- Increased Durability through Lamination on PMMA
- High Transmission of Unpolarized Light from 400 – 700nm

TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200 & XP42-300) are ideal for a variety of imaging applications. Offered in multiple sizes, these linear polarizers feature an excellent extinction ratio and high transmission of unpolarized light from 400 – 700nm. The plastic substrate results in a lightweight polarizer, ideal for weight constrained applications. TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200 & XP42-300) offer increased durability compared to [polarizing film](#).

When unpolarized light enters a linear polarizer, the light that is polarized perpendicular to the polarization axis is absorbed, and light parallel to the polarization axis is transmitted. TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200) utilize a stretched PVA film to create the polarization axis. To increase durability, the film is then laminated between two plastic plates.

**Note:** These linear polarizers are not recommended for laser applications.

### Immediate Custom Quotes Available

If you have a need for any round, square, or rectangular size of a TECHSPEC High Contrast Plastic Linear Polarizers (XP42-200) in dimensions between 3mm and 600mm, please visit our [Polarizing Film Tool](#). We'll provide an immediate quote, and can deliver the part to your requested size in approximately 3 weeks. A full list of standard manufacturing tolerances and restrictions are listed. For fully customized polymer polarizers to your requirements, visit our [Customized Polymer Polarizers Capabilities](#) page.

## Technical Information

