

TECHSPEC<sup>®</sup> 600 x 450mm Linear Plastic Polarizer (XP42-300)



Stock #24-283 5 In Stock

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1

+

€352<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €352,00 each                  |
| Qty 6-49       | €281,90 each                  |
| Qty 50-99      | €264,10 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

600.0 x 450.0 ±5.0

Dimensions (mm):

3.12 ±0.35

Thickness (mm):

|                                                              |  |                              |
|--------------------------------------------------------------|--|------------------------------|
| Polarizing Film on PMMA                                      |  | Construction:                |
| Optical Properties                                           |  |                              |
| 9000:1                                                       |  | Extinction Ratio:            |
| XP42-300 on PMMA                                             |  | Substrate: □                 |
| Transmission (%):<br>Single: 42 Parallel: 36 Crossed: <0.004 |  |                              |
| 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

