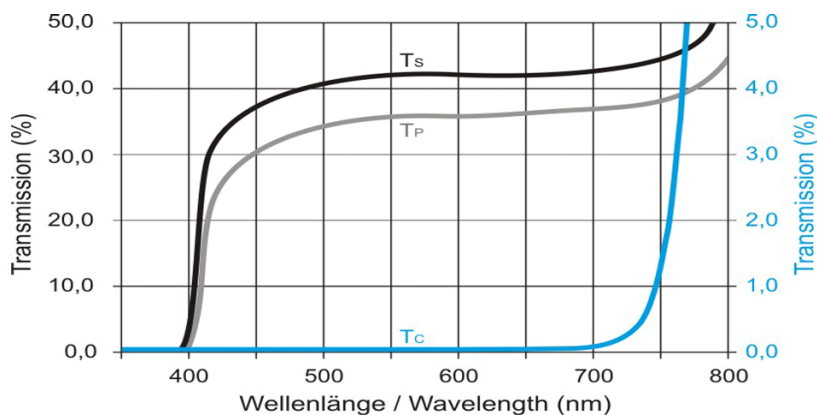


POLYMER POLARIZING FILMS AND RETARDERS BY EO

XP42HE LINEAR POLARIZER



The XP42HE is a sheet polarizer with high transmission of light and polarization of 400-700nm. This polarizer has the highest contrast as it allows the least amount of visible light to pass. The polarizer is typically used for high-end applications within the short-wave spectral field.

APPLICATION AREAS:

- 3D systems
- Optical Instruments
- Stress analyzers

| SPECIFICATION | UNIT | VALUE |
|----------------------------|------|----------------|
| Transmission, TS* | % | 42.6+/-2 |
| Transmission Parallel, TP* | % | 36.4 |
| Transmission Crossed, TC* | % | <0.001 |
| Extinction Ratio | % | up to 30,000:1 |
| Polarizing efficiency, P | % | >99.99 |
| Hue | A | -1.5 +/- 2.0 |
| | B | +4.0 +/- 2.5 |

TS* = Transmission of a single polarizer

TP* = Transmission of two parallel polarizers

TC* = Transmission of two crossed polarizers

*the figures given are typical and therefore not guaranteed

| RESISTANCE | VALUE | NOTE |
|-----------------------------|-------------------|---|
| Operating Temperature Range | -40°C to +80°C | |
| Heat Resistance | 80°C x 500h | Deterioration of transmittance up to ±3% from initial value |
| Humidity Resistance | 60°C x 90% x 500h | Deterioration of polarizing efficiency up to ±3% from initial value |

No bubbles or delamination should be visible.

FORM OF DELIVERY:

Custom sizes available on demand. The direction of polarization is parallel to the first-mentioned dimension. Protective films on both sides should be removed before using the polarizers within your application. We reserve the right to change the technical specifications at any time.

Find out more about our polarizers: www.edmundoptics.com/lto-s-Polarizers