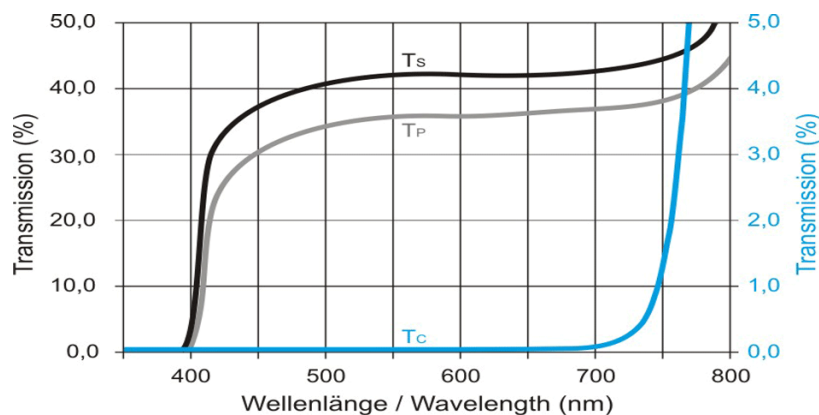


# POLYMER POLARIZING FILMS AND RETARDERS BY EO

## 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 +/- 2.0

TS\* = Transmission of a single polarizer

TP\* = Transmission of two parallel polarizers

TC\* = Transmission of two crossed polarizers

\*the figures given are typical @ 555nm 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

Note: environmental specifications apply to XP42HE-18 only, may vary for laminated types.

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/ltos-Polarizers](http://www.edmundoptics.com/ltos-Polarizers)