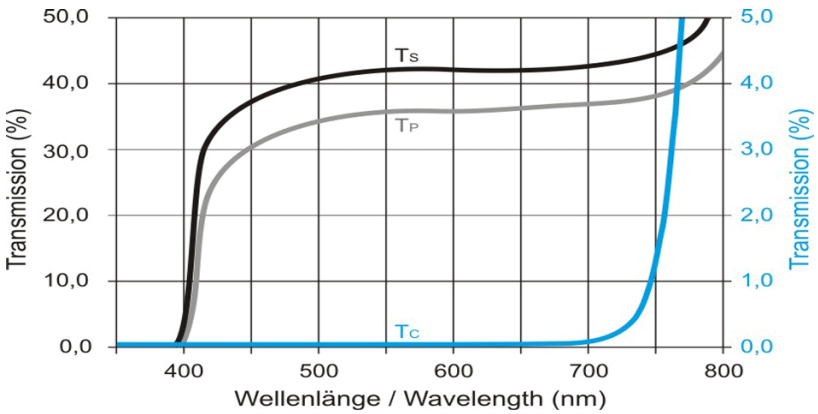
XP42HE LINEAR POLARIZER



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 × 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.

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