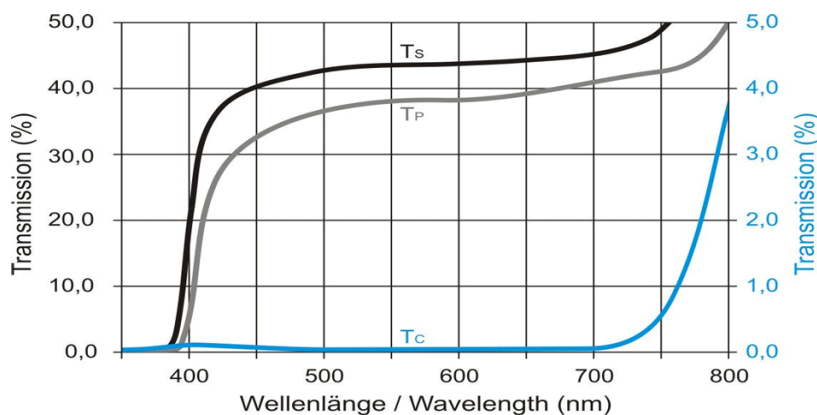


POLYMER POLARIZING FILMS AND RETARDERS BY EO

XP42 - LINEAR POLARIZER



The XP42 is a high quality, neutral grey polarizer sheet of the newest generation. Through its high transmission and polarization of 400-700nm (i.e. within the visible region absorption spectrum) the polarizers can be used for many different types of applications.

APPLICATION AREAS:

- Sensors
- Measuring devices
- Stress analyzers
- Optical instruments

SPECIFICATION	UNIT	VALUE
Transmission, TS*	%	42+/-2
Transmission Parallel, TP*	%	36.4
Transmission Crossed, TC*	%	<0.004
Extinction Ratio	%	up to 9,000:1
Polarizing efficiency, P	%	>99.98
Hue	A	-1.1 +/- 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 and therefore not guaranteed

RESISTANCE	VALUE	NOTE
Operating Temperature Range*	-40°C to +80°C	
Heat/Cold Resistance*	80°C x 500h / -40°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

*Environmental Resistances only apply to XP42-18

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/Itos-Polarizers