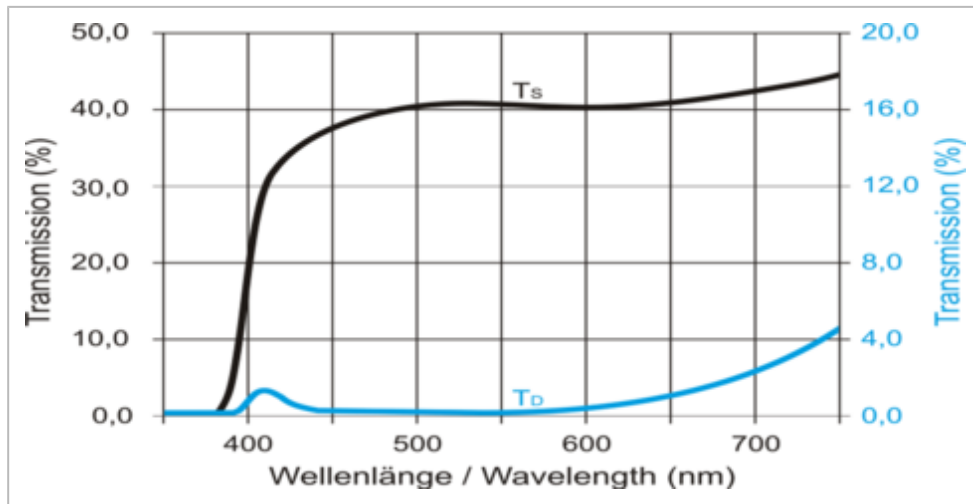


# CP42HE CIRCULAR POLARIZER



The CP42HE circular polarizer is created by laminating the XP42 linear polarizer to the high contrast WP140HE ¼ wavelength retarder sheet. The process results in one of the best circular polarizers available on the market, offering the highest contrast and maximum light transmission for the most demanding of applications.

Application areas:

- Increasing the contrast of LCD and OLED panels  
(in fact, all reflective surfaces)
- Stress analyzers
- Sensors

Specification	Unit	Value
Transmission, TS*	%	42 +/- 2
Transmission, TD*	%	<0.05 (560nm)
Polarizing efficiency, P	%	> 99.98
Hue	a	-2.0 +/- 2.0
	b	+3.3 +/- 2.5

TS\* = Transmission of a single polarizer

TD\* = Transmission of a double pass, reflection

\*the figures given are typical and therefore not guaranteed

Dimension	Thickness	Characteristics
600 mm x 500 mm	0.29 mm	Sheet LH
600 mm x 500 mm	0.29 mm	Sheet RH
300 mm x 300 mm	0.29 mm	Sheet LH
300 mm x 300 mm	0.29 mm	Sheet RH

Resistance	Value	Note
Heat resistance	80°C x 500h	Deterioration of transmittance up to +/-3% from original value
Cold resistance	-40°C x 500h	Deterioration of transmittance up to +/-3% from original value
Humidity resistance	60°C x 90% x 500h	Deterioration of polarizing efficiency up to -3% from original value
Operating Temperature	-40°C to +80°C	

**Form of delivery:**

The polarizer is left circular (LH). Right circular polarizers can be produced if required.

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.