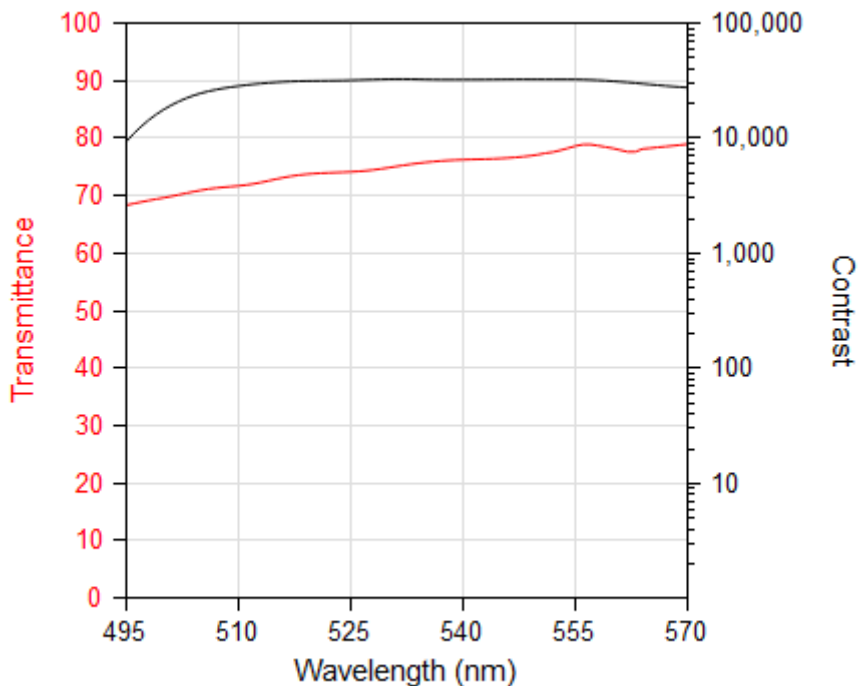


## colorPol® VIS 500 BC4 T1

Developed to match special needs of visible applications between 500 nm and 550 nm. This polarizer utilizes dichroism of silver nanoparticles in glass to achieve superior contrast and durability.

Custom shapes, sizes and patterned structures are possible due to larger manufactured substrates. For assistance please contact your CODIXX Sales Engineer or one of the local distributors with your custom requirements.



### Key Benefits

- Thickness 90 µm
- Transmittance > 72 % (up to 83 %) with antireflection (AR) coating
- Contrast ratio greater than 10,000 : 1
- Ideal for applications using the visible wavelength ranges
- Customization
- Highly durable

Spectral range	VIS
Wavelength range with contrast > 10,000 : 1 <sup>(1)</sup>	500 to 550 nm
Transmittance uncoated with AR-coating	> 67 % up to 78 % > 72 % up to 83 %
Filter thickness	90 ± 25 µm
Acceptance angle (coating reference for 0°)	± 20°
Accuracy of polarization axis to edge	< 0.5°
Usual surface quality (MIL-O-13830A: Scratch / Dig) <sup>(2)</sup>	40 / 20
Operating temperature	-50 to +400 °C
Transmitted wavefront distortion at 633 nm over an inspection area of Ø10 mm	< 3 λ
Recommended safe operation limit Laser damage threshold Continuous block Continuous pass Pulse peak power Equivalent pulse power density	10 W/cm <sup>2</sup> 25 W/cm <sup>2</sup> 12 MW/cm <sup>2</sup> 1 µJ/cm <sup>2</sup>
<sup>(1)</sup> contrast: ratio of parallel to perpendicular transmittance <sup>(2)</sup> other specifications available on request	



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