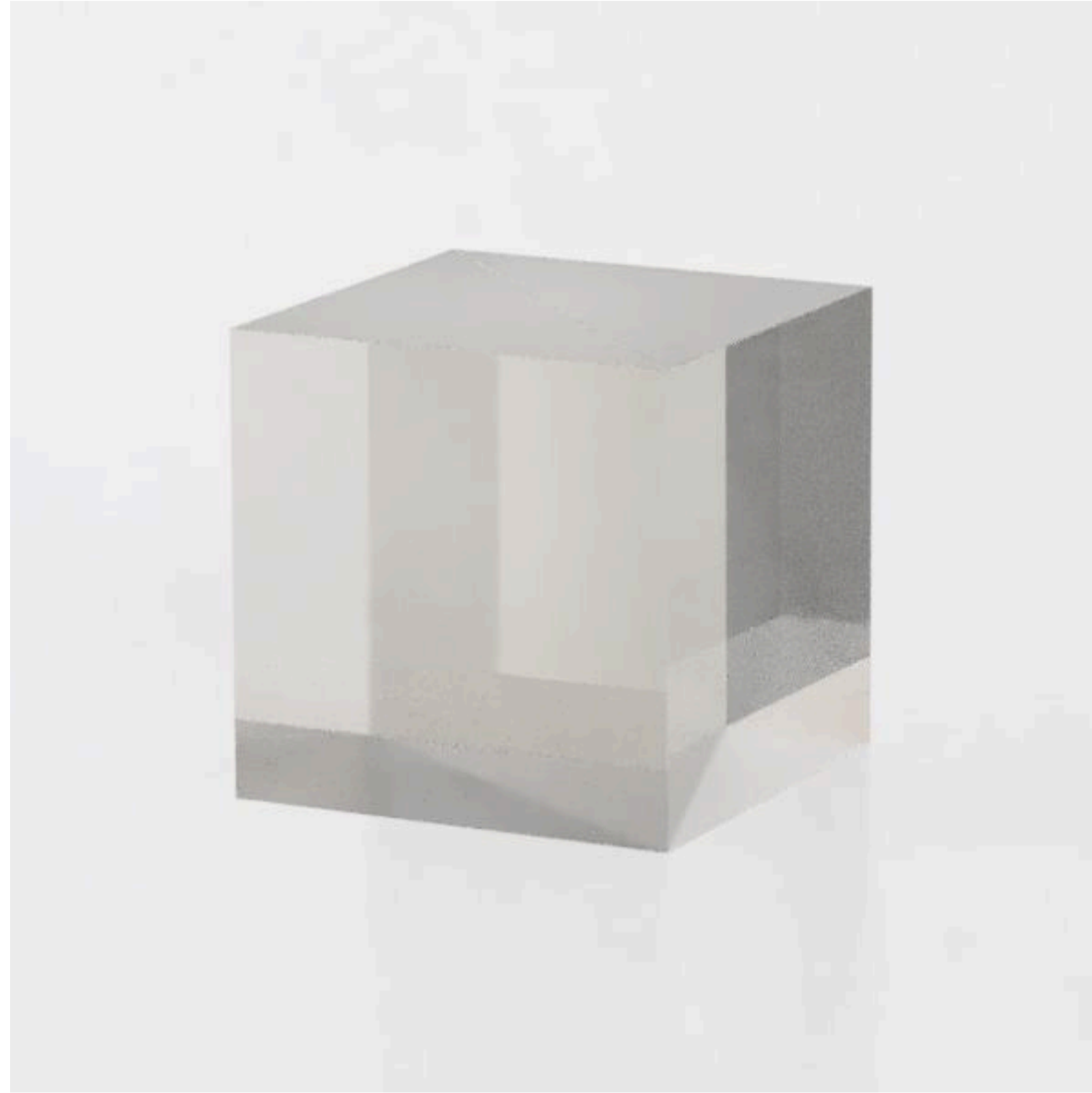
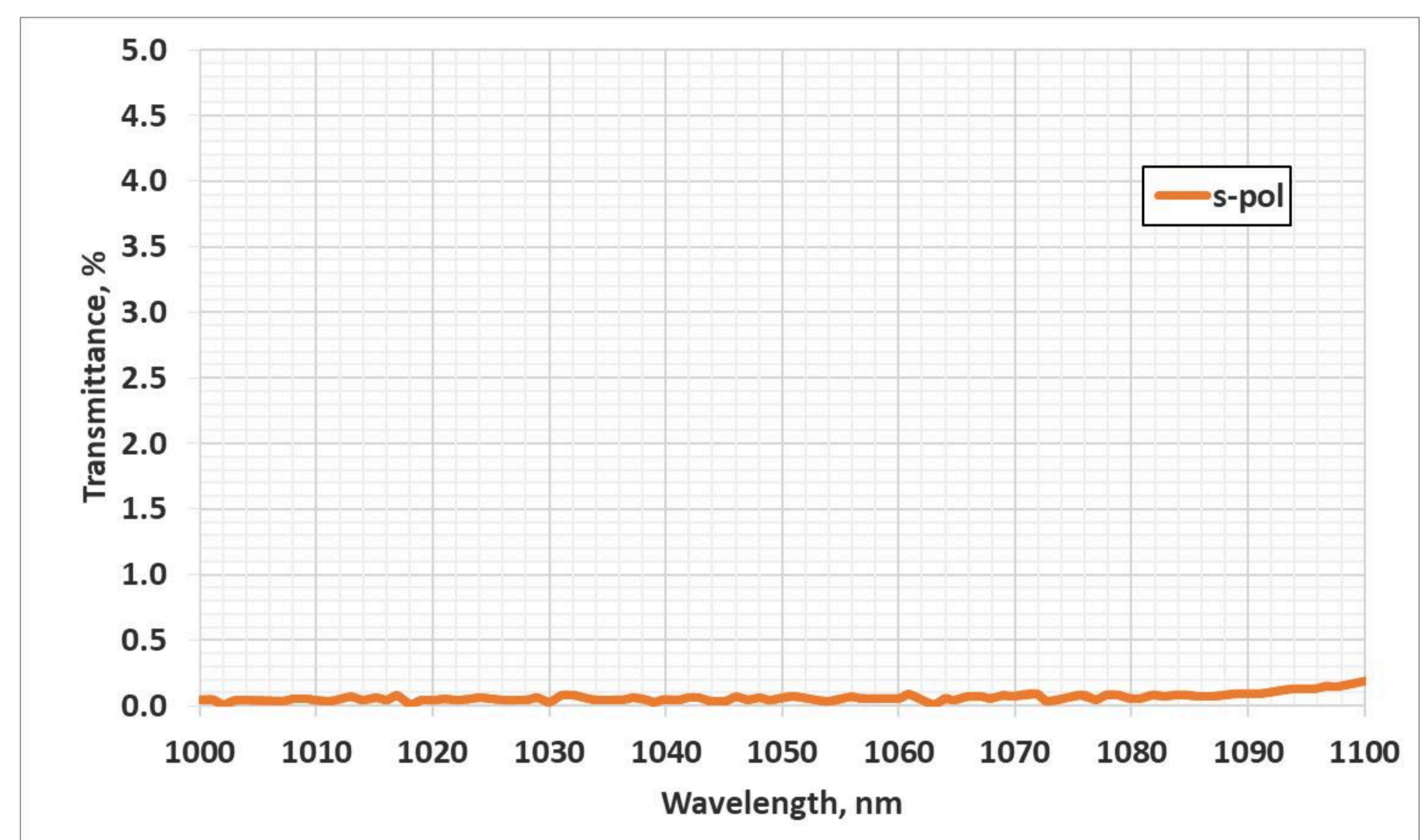
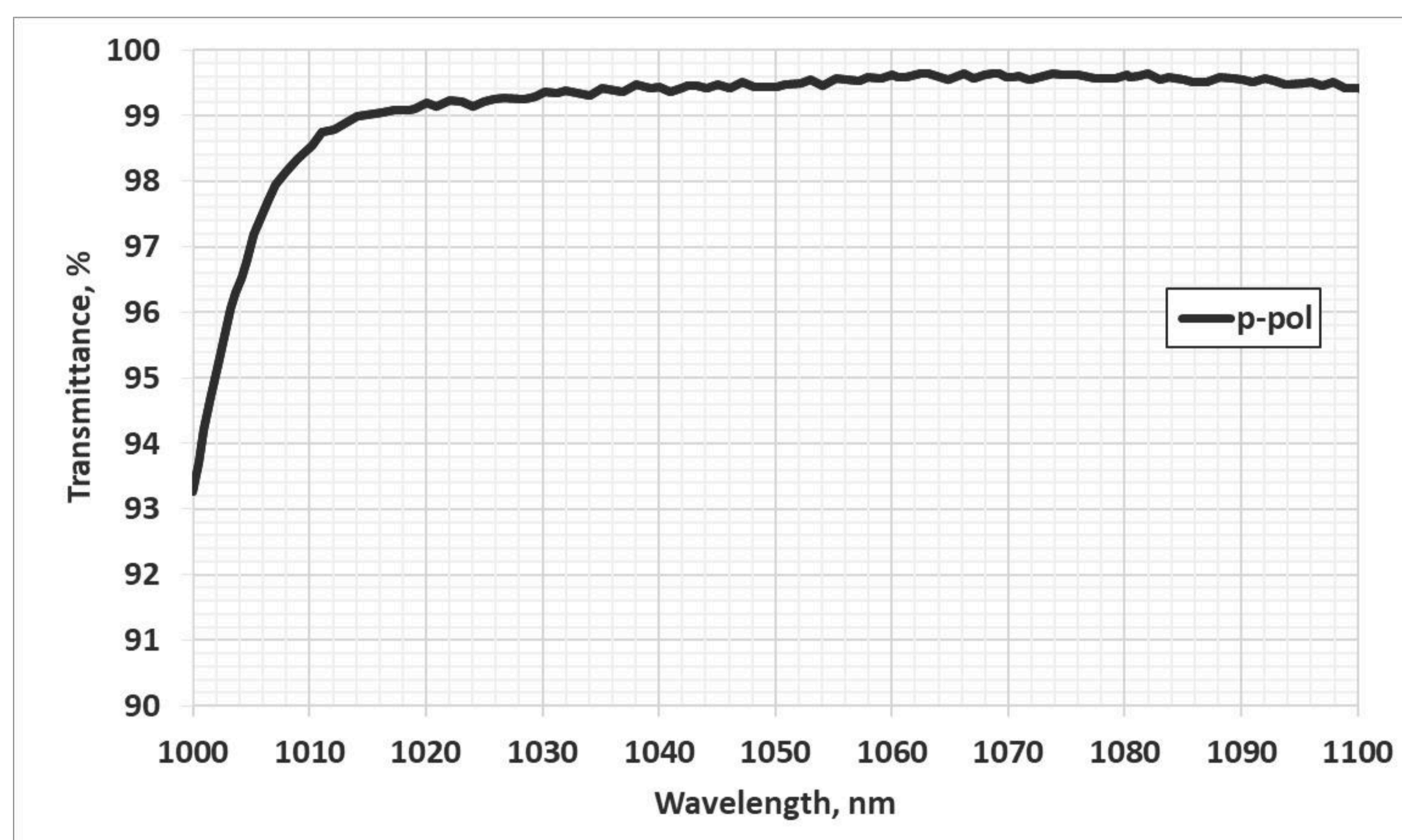


Polarizing Beamsplitter Cubes



Key Features

- **High Damage Threshold:** up to 20 J/cm² for pulsed lasers (1064 nm, 10 ns, 10 Hz)
- **High Extinction Ratio:** High-energy polarizing cubes often achieve an extinction ratio greater than 1000:1, ensuring high contrast between transmitted and reflected beams.
- **Broad Wavelength Range:** from the ultraviolet (UV) through visible (VIS) and near-infrared (NIR) regions. Custom wavelength options can also be fabricated for specific applications.
- **Precision Optical Design:** The typical transmitted beam deviation is within 3 arc minutes, and surface flatness is $\lambda/8$ or better, ensuring minimal distortion and high-quality beam splitting.
- **Durability and Coating Stability:** The dielectric coatings on PBS cubes are engineered for stability and long-term durability, even in high-energy laser applications.



Typical transmittance of PBSC-12.7-1020-1090-HP

Product	Dimensions, mm	Application	Wavelength, nm	Contrast, Tp:Ts	Transmittance Tp, %
PBSC-12.7-345-365-HP	12.7 x 12.7 x 12.7	High Power	345 - 365	> 500:1	> 96
PBSC-12.7-510-535-HP	12.7 x 12.7 x 12.7	High Power	510 - 535	> 500:1	> 97
PBSC-12.7-1020-1090-HP	12.7 x 12.7 x 12.7	High Power	1020 - 1090	> 1000:1	> 97
PBSC-12.7-1310-HP	12.7 x 12.7 x 12.7	High Power	1310	> 500:1	> 97
PBSC-5-1520-1570-HP	5 x 5 x 5	High Power	1520 - 1570	> 500:1	> 97

*Other dimensions and operating wavelengths available upon request

Specifications	
Dimensions tolerance:	+/- 0.2 mm
Clear aperture:	> 85%
Surface quality:	20-10 S-D
Beam deviation:	< 3 arcmin
Protective chamfers:	< 0.3 mm x 45°

The perfect combination with our extensive offering of waveplates:

<https://photronicsolutions.eu/optical-components/waveplates/>

