



**Technical
Data Sheet**

High Precision 1064 nm Laser Thin Film Polarizer Coatings
TFP / Thin Film Polarizer

**Short
Description**

This TFP offers the separation of s-polarized from p-polarized light at a wavelength of 1064 nm with an excellent extinction ratio and at an angle of incidence of 55.6°, corresponding to Brewster's angle for Fused Silica at this wavelength (back side therefore uncoated).

The TFPs are fabricated with NANEO's proprietary precision coating technology on IBS (Ion Beam Sputtering) coating machines. NANEO achieves unique layer thickness precision. IBS provides the most dense, low loss, stable and durable optical coatings among the optical coating technologies, suitable for very high powers and energies.

**Design
Properties**

Product number: PR0461
Wavelength range: 1064 nm +/- 10 nm
Reflection: $R_s > 99,98\%$ (1064 nm)
Transmission: $T_p > 99,95\%$ (1064 nm)
Extinction ratio: $T_p / T_s = 5000$
LIDT: 20 J/cm² @ 10 ns, 1064 nm
Angle of incidence: 55.6°

Substrates: 12.7 x 18 x 2 mm, Dia 12.7 x 2 mm, custom substrates
Please inquire for custom specifications

Graph

This graph shows the relevant transmission and reflection curve for this 1064 nm TFP PR0461.

