

Suprasil® ProPlate IR

The smart way to plate-like ingot

Suprasil® ProPlate IR is a new material grade based on a new direct production route for plate geometry.

It has a good optical homogeneity ≤ 5 ppm PV within the CA. This product, made from synthetic fused silica, with its OH content ranging up to ~ 75 ppm, is perfectly suited for demanding laser applications at 1064 nm.

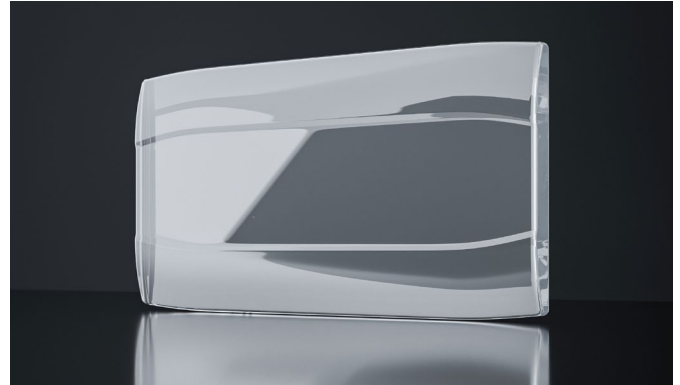
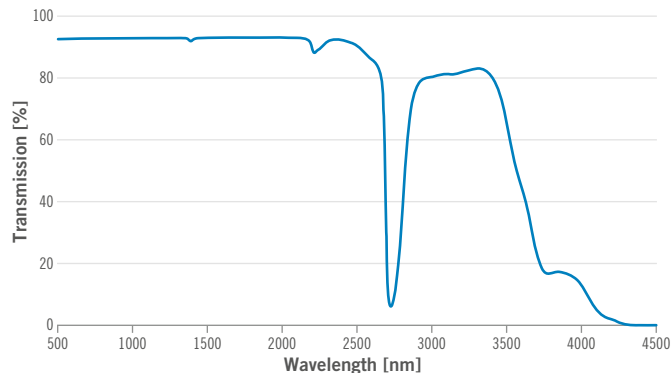
Its large size and economical price also offer effective solutions for a wide range of geometries and applications.

Possible applications

- Laser cutting
- Laser welding
- Large size mirrors

Optical Properties

Typical Transmission



Physical Properties

Geometry

Length	1050 mm + 10 mm / - 50 mm
Width	505 mm + 10 mm / - 5 mm
Thickness (at 80% width)	50 mm \pm 5 mm
Clear Aperture (CA)	970 mm \times 470 mm
Homogeneity	5 ppm PV
Stress Induced Birefringence (SIB) in CA	5 nm/cm
Bubbles and Inclusions (10mm from each side)	no more than 6 bubbles in total; bubbles <0.1 mm not counted

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