

5mm Dia., 1mm Thick, BBAR (1650-3000nm) Coated, Suprasil Window



Suprasil® Windows

Stock #21-241 14 In Stock

-

1

+

£105⁰⁰

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Volume Pricing	
Qty 1-5	£105.06 each
Qty 6-25	£84.05 each
Qty 26-49	£78.80 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Protective Window

Type:

Physical & Mechanical Properties	
Protective as needed	Bevel:
90	Clear Aperture (%):
4.50	Clear Aperture CA (mm):
5.00 +0.00/-0.10	Diameter (mm):
1.00 ±0.10	Thickness (mm):
Fine Ground	Edges:
591.00	Knoop Hardness (kg/mm²):
<5	Parallelism (arcsec):
0.17	Poisson's Ratio:
70	Young's Modulus (GPa):

Optical Properties	
67.8	Abbe Number (v _d):
BBAR (1650-3000nm)	Coating:
R _{avg} <1% @ 1650 - 3000nm R _{abs} <2% @ 1650 - 3000nm	Coating Specification:
1.459	Index of Refraction (n _d):
Suprasil® 300	Substrate:
10-5	Surface Quality:
λ/10	Transmitted Wavefront, P-V:
1650 - 3000	Wavelength Range (nm):

Material Properties	
0.51 (0 to +100°C) 0.58 (0 to +200°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
2.20	Density (g/cm³):

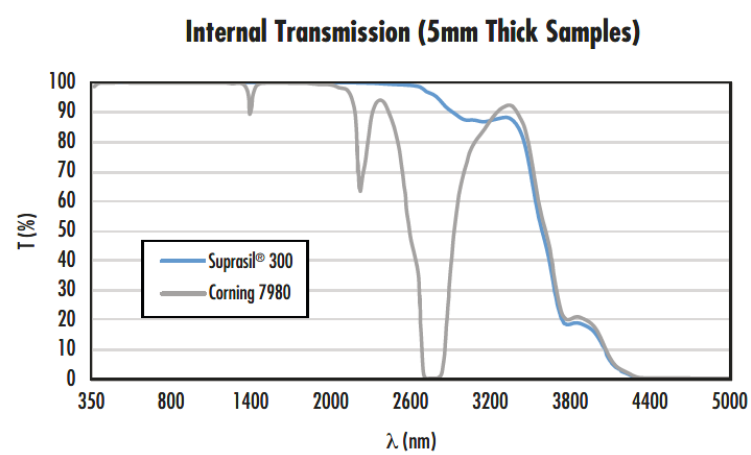
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

PRODUCT DETAILS

- High Transmission from 200 to 3500nm
- <1 ppm OH Content for Minimal Absorption Losses
- 10-5 Surface Quality and up to λ/10 TWD

Suprasil® Windows are constructed from high purity synthetic fused silica and provide high, flat transmission from 200 to 3500nm. Suprasil has similar mechanical properties to fused silica with the added benefit of having no absorption bands in the visible or infrared spectra, resulting in no transmission loss between 1400 - 2700nm. Compared to Infrasil®, Suprasil has lower absorption with a <1 ppm OH content, causing negligible increase in temperature from bulk absorption when used with high powered lasers. Suprasil Windows are ideal for laser material processing, medical laser applications, or applications using Nd:doped or 2 micron lasers.

TECHNICAL INFORMATION



COMPATIBLE MOUNTS