

[See all 36 Products in Family](#)

50mm Dia., 3mm Thick, BBAR (1650-3000nm) Coated, Suprasil Window



Suprasil® Windows

Stock #21-249 **2 In Stock**

MRP ₹44,997

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-5	₹44,997 each
Qty 6-25	₹36,018 each
Qty 26-49	₹33,799 each
Need More?	Request Quote

Product Downloads

General

Protective Window **Type:**

Glass **Type of Window:**

Physical & Mechanical Properties

Clear Aperture CA (mm):

45.00	Diameter (mm):
50.00 +0.00/-0.10	
	Thickness (mm):
3.00 ±0.10	
	Bevel:
Protective as needed	
	Clear Aperture (%):
90	
	Edges:
Fine Ground	
	Parallelism (arcsec):
<5	
	Poisson's Ratio:
0.17	
	Young's Modulus (GPa):
70	
	Knoop Hardness (kg/mm²):
591.00	

Optical Properties

	Coating:
BBAR (1650-3000nm)	
	Substrate: <input type="checkbox"/>
Suprasil® 300	
	Index of Refraction (n_d):
1.459	
	Surface Quality:
10-5	
	Transmitted Wavefront, P-V:
λ/10	
	Abbe Number (v_d):
67.8	
	Coating Specification:
R _{avg} <1% @ 1650 - 3000nm	
R _{abs} <2% @ 1650 - 3000nm	
	Wavelength Range (nm):
1650 - 3000	

Material Properties

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

Regulatory Compliance

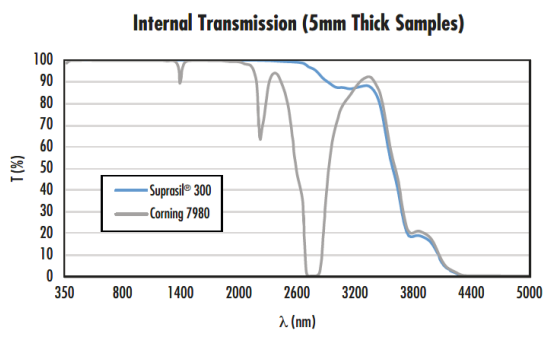
	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	Reach 235:
Compliant	
	Country of Origin:
Vietnam	
	Imported By:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	

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