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15mm Dia., 2mm Thick, Uncoated, Suprasil Window

Suprasil® Windows

Stock **#89-685** NEW CONTACT US

- 1 + MRP ₹12,063

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-5	**₹12,063** each
Qty 6-25	**₹9,650** each
Qty 26-49	**₹9,047** each
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Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):

13.5

Diameter (mm):

15.00 +0/-0.1

Thickness (mm):
2.00 ±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/mm^2):
591.00

Optical Properties

Coating:
Uncoated

Substrate:
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

Wavelength Range (nm):
200 - 3500

Material Properties

Density (g/cm^3):
2.2

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

Country of Origin:
Vietnam

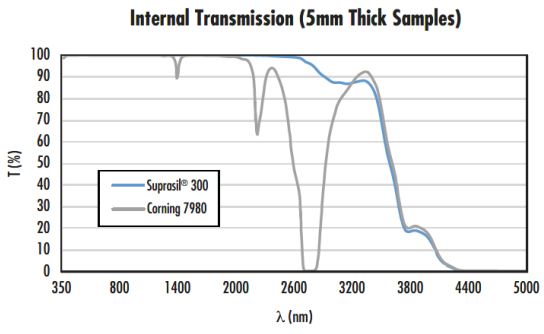
Imported By:
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

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


Internal Transmission (5mm Thick Samples)
T (%)
100
90
80
70
60
50
40
30
20
10
0
Suprasil® 300
Corning 7980
350
800
1400
2000
2600
3200
3800
4400
5000
λ (nm)

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