See all 36 Products in Family

10mm Dia., 1.5mm Thick, BBAR (1650-3000nm) Coated, Suprasil Window

Suprasil® Windows

Stock **#21-242** **5 In Stock**

- 1 + **€152**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**€152,00** each
Qty 6-25	**€121,00** each
Qty 26-49	**€114,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Protective Window

Type of Window:
Glass

Physical & Mechanical Properties

Clear Aperture CA (mm):

9.00

Diameter (mm):

10.00 +0.00/-0.10

Thickness (mm):

1.50 ±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:

BBAR (1650-3000nm)

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

Coating Specification:

R_{avg} <1% @ 1650 - 3000nm
R_{abs} <2% @ 1650 - 3000nm

Wavelength Range (nm):

1650 - 3000

Material Properties

Density (g/cm^3):

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:

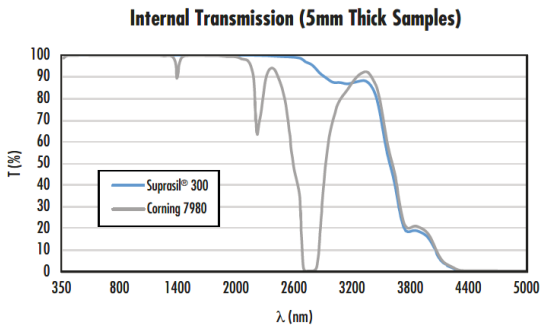
Compliant

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

;