

TECHSPEC® 12.5mm Diameter x 1.1mm Thickness, Uncoated, BOROFLOAT® Window

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock **#39-272** 20+ In Stock

-

1

+

£20¹⁴

ADD TO CART

Volume Pricing	
Qty 1-5	£20.14 each
Qty 6-25	£15.98 each
Qty 26-99	£14.67 each
Need More?	Request Quote

 Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:

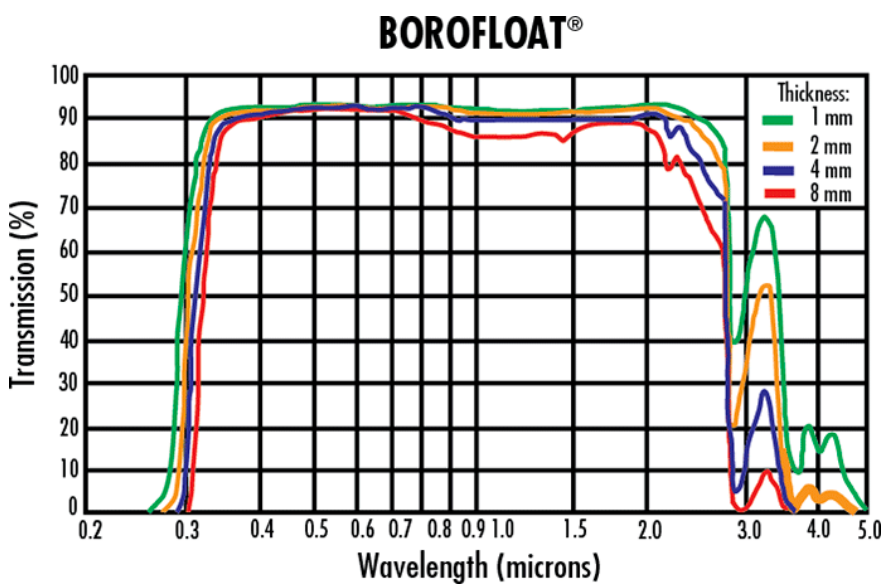
Protective Window

Physical & Mechanical Properties	
Protective as needed	Bevel:
≥90	Clear Aperture (%):
11.25	Clear Aperture CA (mm):
12.50 ±0.5	Diameter (mm):
1.10 ±0.2	Thickness (mm):
Ground	Edges:
480.00	Knoop Hardness (kg/mm²):
0.20	Poisson's Ratio:
64	Young's Modulus (GPa):
Optical Properties	
65.41	Abbe Number (v _d):
Uncoated	Coating:
1.472	Index of Refraction (n _d):
BOROFLOAT®	Substrate:
4 - 6λ	Surface Flatness (P-V):
80-50	Surface Quality:
90	Transmission (%):
350 - 2000	Wavelength Range (nm):
Material Properties	
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C): 3.25 (+20 to +300°C)	
2.23	Density (g/cm³):
525	Transformation Temperature (°C):
Environmental & Durability Factors	
Operating Temperature (°C): 1 hour @ 500; >100 hours @ 450	
Resistance to Temperature Difference (K): Short Term, 1 hr: 110K 1 - 100 hrs: 90K Long Term, >100 hrs: 80K	
Thermal Shock (K): Up to 4mm Thick: 175K 4 - 6mm Thick: 160K 6 - 15mm Thick: 150K	
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

PRODUCT DETAILS

- Low Coefficient of Thermal Expansion
 - Visible to Near Infrared Transmission
 - High Resistance to Thermal Shock
- TECHSPEC® BOROFLOAT® Borosilicate Windows are ideal for high temperature and harsh environment applications. The windows have a low coefficient of thermal expansion of 3.25 (+20 to +300°C). TECHSPEC® BOROFLOAT® Borosilicate Windows feature visible to near infrared transmission. Unlike common borosilicate that is drawn flat, BOROFLOAT® is produced by a float technique that yields superior surface flatness — typically 4 - 6λ per inch. BOROFLOAT® is about three times more resistant to thermal shock than standard soda lime glass.

TECHNICAL INFORMATION



QUOTE YOUR SIZE

COMPATIBLE MOUNTS