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## TECHSPEC® 5mm Diameter x 1.75mm Thickness, MgF<sub>2</sub> Coated, BOROFLOAT® Window

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock **#83-369** **9 In Stock**

1  MRP ₹3,178

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹3,178 each
Qty 6-25	₹2,523 each
Qty 26-99	₹2,321 each
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### Product Downloads

### General

Protective Window **Type:**

Glass **Type of Window:**

### Physical & Mechanical Properties

4.50	Clear Aperture CA (mm):
5.00 ±0.5	Diameter (mm):
1.75 ±0.2	Thickness (mm):
Protective as needed	Bevel:
≥90	Clear Aperture (%):
Ground	Edges:
0.20	Poisson's Ratio:
64	Young's Modulus (GPa):
480.00	Knoop Hardness (kg/mm <sup>2</sup> ):

## Optical Properties

MgF <sub>2</sub> (400-700nm)	Coating:
<a href="#">BOROFLOAT®</a>	Substrate: <input type="checkbox"/>
1.472	Index of Refraction (n <sub>d</sub> ):
80-50	Surface Quality:
≥95	Transmission (%):
65.41	Abbe Number (v <sub>d</sub> ):
R <sub>abs</sub> ≤2.5% @550nm	Coating Specification:
400 - 700	Wavelength Range (nm):
4 - 6λ	Surface Flatness (P-V):

## Material Properties

2.23	Density (g/cm <sup>3</sup> ):
525	Transformation Temperature (°C):
3.25 (+20 to +300°C)	Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C):

## Environmental & Durability Factors

1 hour @ 500; >100 hours @ 450	Operating Temperature (°C):
Short Term, 1 hr: 110K 1 - 100 hrs: 90K Long Term, >100 hrs: 80K	Resistance to Temperature Difference (K):
Up to 4mm Thick: 175K 4 - 6mm Thick: 160K 6 - 15mm Thick: 150K	Thermal Shock (K):

## Regulatory Compliance

<a href="#">Compliant</a>	RoHS 2015:
<a href="#">View</a>	Certificate of Conformance:
<a href="#">Compliant</a>	Reach 247:
United States	Country of Origin:
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	Imported By:

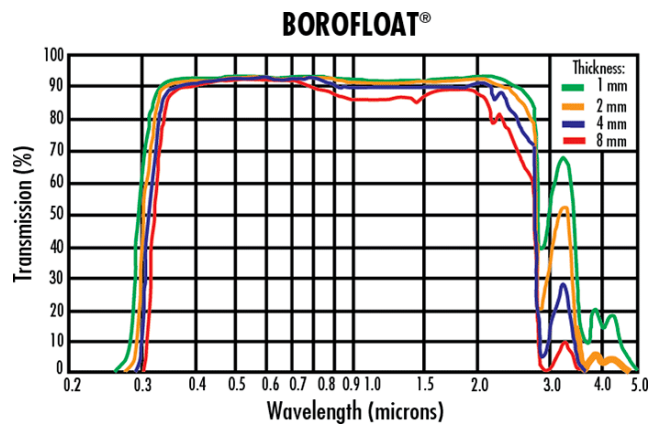
## Product Details

- 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.

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## Technical Information



### Coating Curves

### Quote Your Size

### Compatible Mounts