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TECHSPEC® 5mm Diameter x 1.1mm Thickness, MgF₂ Coated, BOROFLOAT® Window

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock #29-396 **20+ In Stock**

MRP ₹3,178

i Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹3,178 each
Qty 6-25	₹2,523 each
Qty 26-99	₹2,421 each
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General

Protective Window **Type:**

Glass **Type of Window:**

Physical & Mechanical Properties

4.50 **Clear Aperture CA (mm):**

5.00 ±0.50 **Diameter (mm):**

1.10 ±0.2 **Thickness (mm):**

Protective as needed **Bevel:**

≥90 **Clear Aperture (%):**

Ground and Seamed **Edges:**

0.20 **Poisson's Ratio:**

64 **Young's Modulus (GPa):**

480.00 **Knoop Hardness (kg/mm²):**

Optical Properties

MgF2 (400-700nm) **Coating:**

BOROFLOAT® **Substrate:** □

1.472 **Index of Refraction (n_d):**

80-50 **Surface Quality:**

≥95 **Transmission (%):**

65.41 **Abbe Number (v_d):**

Rabs ≤2.5% @ 550nm **Coating Specification:**

400 - 700 **Wavelength Range (nm):**

4 - 6λ **Surface Flatness (P-V):**

Material Properties

2.23 **Density (g/cm³):**

525 **Transformation Temperature (°C):**

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
3.25 (+20 to +300°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

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **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:**

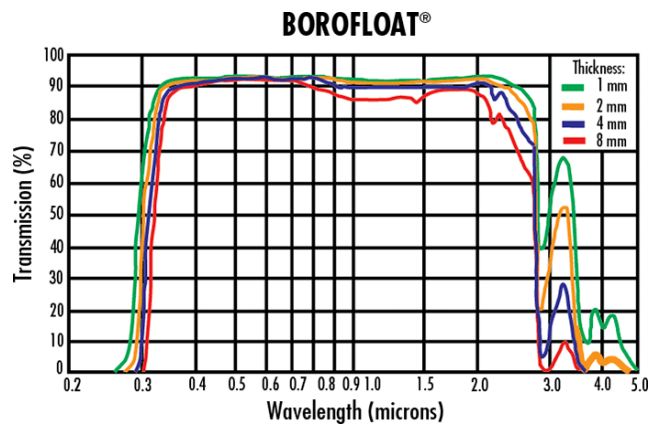
Product Details

- 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