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**TECHSPEC® 40mm Diameter x 3.3mm Thickness, MgF<sub>2</sub> Coated, BOROFLOAT® Window**

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock #29-406 **14 In Stock**

- 1 + MRP ₹4,792

**i** Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹4,792 each
Qty 6-25	₹3,834 each
Qty 26-99	₹3,632 each
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**General**

Protective Window **Type:**

Glass **Type of Window:**

**Physical & Mechanical Properties**

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

40.00 ±0.50 **Diameter (mm):**

3.30 ±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/mm<sup>2</sup>):**

## Optical Properties

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

**BOROFLOAT®** **Substrate:** □

1.472 **Index of Refraction (n<sub>d</sub>):**

80-50 **Surface Quality:**

≥95 **Transmission (%):**

65.41 **Abbe Number (v<sub>d</sub>):**

Rabs ≤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

**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:**

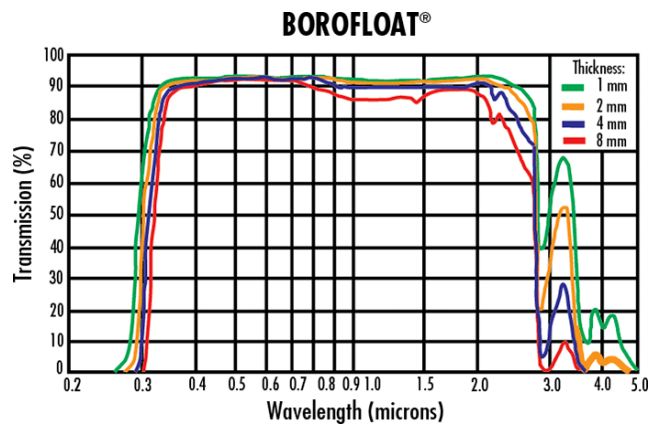
## Product Details

- 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

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### Compatible Mounts