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**TECHSPEC® 30mm Diameter x 1.1mm Thickness, Uncoated, BOROFLOAT® Window**

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock **#29-389** **15 In Stock**

⊖ 1 ⊕ **\$47<sup>95</sup>**

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Volume Pricing	
Qty 1-5	<b>\$47.95</b> each
Qty 6-25	<b>\$37.80</b> each
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**General**

Protective Window **Type:**

Glass **Type of Window:**

**Physical & Mechanical Properties**

**Clear Aperture CA (mm):**

27.00

30.00 ±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/mm<sup>2</sup>):**

## Optical Properties

Uncoated

**Coating:**

**BOROFLOAT®**

**Substrate:**

1.472

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

80-50

**Surface Quality:**

90

**Transmission (%):**

65.41

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

350 - 2000

**Wavelength Range (nm):**

4 - 6λ

**Surface Flatness (P-V):**

## Material Properties

2.23

**Density (g/cm<sup>3</sup>):**

525

**Transformation Temperature (°C):**

**Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):**  
3.25 (+20 to +300°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:**

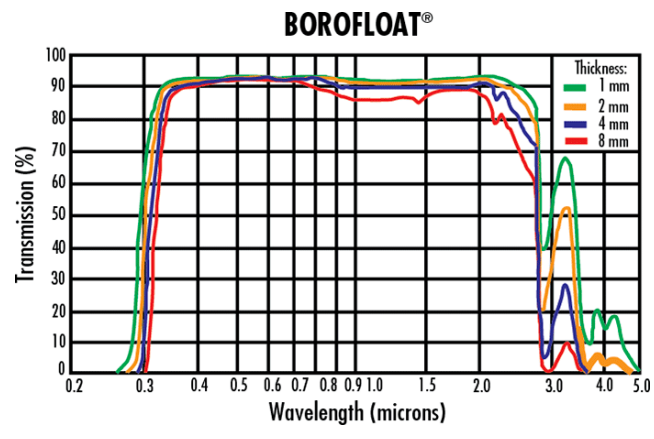
## Product Details

- 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.

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## Technical Information



**Quote Your Size**

**Compatible Mounts**

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