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TECHSPEC<sup>®</sup> 30mm Diameter x 3.3mm Thickness, MgF<sub>2</sub> Coated, BOROFLOAT<sup>®</sup> Window

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock **#83-377** 20+ In Stock

-

1

+

A\$76<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$76.00 each                 |
| Qty 6-25       | A\$60.80 each                 |
| Qty 26-99      | A\$56.00 each                 |
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Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):

27.00

Diameter (mm):

|                      |                          |
|----------------------|--------------------------|
| 30.00 ±0.5           |                          |
| 3.30 ±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/mm²): |

|                                |                                        |
|--------------------------------|----------------------------------------|
| Optical Properties             |                                        |
| MgF <sub>2</sub> (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> ):         |
| 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/cm³):                                             |
| 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<br>1 - 100 hrs: 90K<br>Long Term, >100 hrs: 80K | Resistance to Temperature Difference (K): |
| Up to 4mm Thick: 175K<br>4 - 6mm Thick: 160K<br>6 - 15mm Thick: 150K   | Thermal Shock (K):                        |

|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| View                  | Certificate of Conformance: |
| Compliant             | Reach 247:                  |

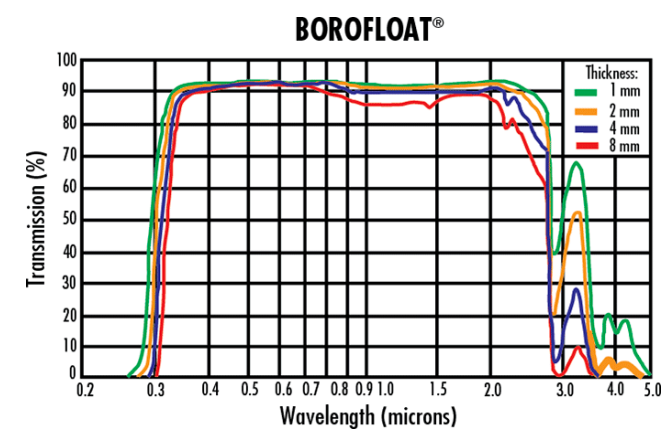
## Product Details

- 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



Coating Curves

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Compatible Mounts