

**TECHSPEC® 50.8mm Dia., 700 - 900nm BBAR Coated, Ultrafast Thin Window**



Stock #11-745 **14 In Stock**

- 1 + €315<sup>.00</sup>

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Volume Pricing	
Qty 1-5	€315,00 each
Qty 6-25	€284,00 each
Qty 26-49	€267,00 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Ultrafast Window **Type:**

Glass **Type of Window:**

**Physical & Mechanical Properties**

50.80 +0.00/-0.10 **Diameter (mm):**

1.00 ±0.10	<b>Thickness (mm):</b>
Protective as needed	<b>Bevel:</b>
90	<b>Clear Aperture (%):</b>
Fine Ground	<b>Edges:</b>
≤30	<b>Parallelism (arcsec):</b>
0.16	<b>Poisson's Ratio:</b>
73	<b>Young's Modulus (GPa):</b>
522.00	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>

## Optical Properties

BBAR (700-900nm)	<b>Coating:</b>
800	<b>Design Wavelength DWL (nm):</b>
<b>Fused Silica</b> (Corning 7980)	<b>Substrate:</b> <input type="checkbox"/>
1.458	<b>Index of Refraction (n<sub>d</sub>):</b>
20-10	<b>Surface Quality:</b>
λ/6	<b>Transmitted Wavefront, P-V:</b>
67.8	<b>Abbe Number (v<sub>d</sub>):</b>
R <sub>abs</sub> <0.2% @ 700 - 900nm	<b>Coating Specification:</b>
700 - 900	<b>Wavelength Range (nm):</b>
10 J/cm <sup>2</sup> @ 532nm, 20ns, 20Hz	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>

## Material Properties

2.20	<b>Density (g/cm<sup>3</sup>):</b>
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
7979 0G	<b>Fused Silica Grade:</b>

## Regulatory Compliance

<b>Compliant</b>	<b>RoHS 2015:</b>
<b>Compliant</b>	<b>Reach 219:</b>
<b>View</b>	<b>Certificate of Conformance:</b>

## Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

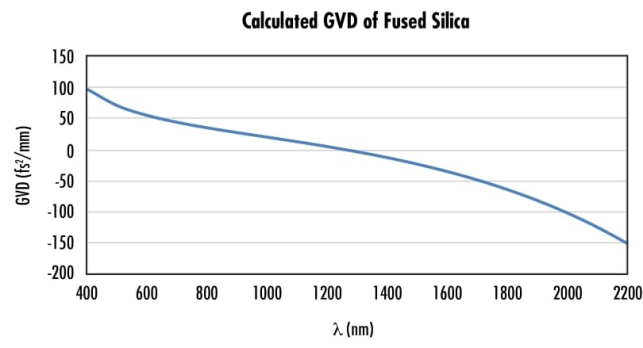
- 1mm Thickness for Limited GDD
- Low Loss Broadband IBS Anti-Reflection Coating
- Designs for Wavelengths from 370nm to 2200nm

- Coating GDD of  $\pm 30\text{fs}^2$
- UV or IR Grade Fused Silica Substrates

TECHSPEC® Ultrafast Thin Windows are designed with a 1mm thickness to have limited group delay dispersion (GDD), making them ideal for ultrafast laser applications. These thin windows are available coated on both surfaces with an ion-beam sputtered (IBS) broadband antireflection coating optimized to provide low reflectance at wavelength ranges between 370nm to 2.2 $\mu\text{m}$ . The IBS coating process also provides these windows with lower absorption losses and scatter than conventionally coated anti-reflection windows. TECHSPEC Ultrafast Thin Windows can also be used in general optical applications that require high-performance optical windows with a small form factor. Uncoated Thin Window substrates (UV Fused Silica or IR Grade Fused Silica) are available to offer the flexibility of custom coatings to meet your application requirements, please contact us for more information.

IR grade fused silica differs from UV grade fused silica by its reduced amount of OH<sup>-</sup> ions, resulting in higher transmission throughout the NIR spectrum and reduction of transmission in the UV spectrum.

## Technical Information



## Compatible Mounts

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