

TECHSPEC[®] 50.8mm Dia., 1900 - 2200nm BBAR Coated, Ultrafast Thin Window



Stock #11-739 12 In Stock

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1

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€312^{.00}

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Volume Pricing	
Qty 1-5	€312,09 each
Qty 6-25	€280,16 each
Qty 26-49	€264,71 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Ultrafast Window

Type:

Physical & Mechanical Properties	
Protective as needed	Bevel:
90	Clear Aperture (%):
50.80 +0.00/-0.10	Diameter (mm):
1.00 ±0.10	Thickness (mm):
Fine Ground	Edges:
522.00	Knoop Hardness (kg/mm²):
≤30	Parallelism (arcsec):
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):
Optical Properties	
67.8	Abbe Number (ν _d):
BBAR (1900-2200nm)	Coating:
R _{abs} <0.15% @ 1900 - 2200nm	Coating Specification:
1.458	Index of Refraction (n _d):
Fused Silica IR Grade	Substrate:
20-10	Surface Quality:
λ/6	Transmitted Wavefront, P-V:
1900 - 2200	Wavelength Range (nm):
Material Properties	
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C): 0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Density (g/cm³):
2.20	
Regulatory Compliance	
View	Certificate of Conformance:

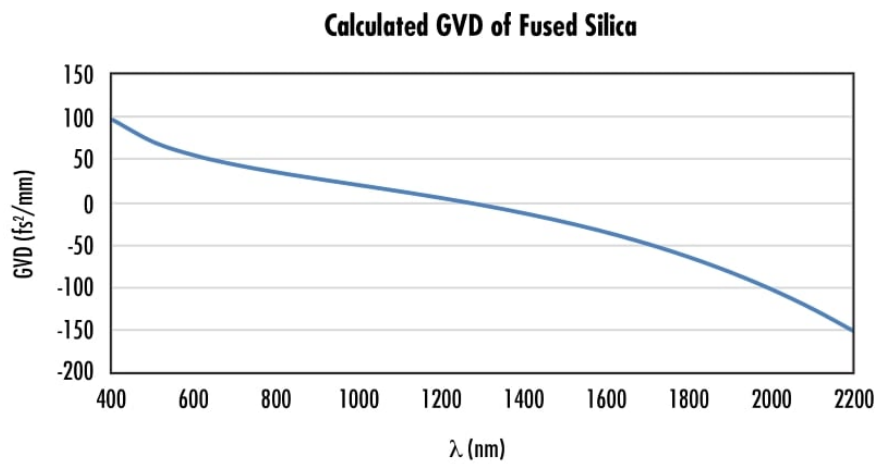
PRODUCT DETAILS

- 1mm Thickness for Limited GDD
- Low Loss Broadband IBS Anti-Reflection Coating
- Designs for Wavelengths from 370nm to 2200nm
- Coating GDD of ±30fs²
- 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 2.2µm. 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⁻ ions, resulting in higher transmission throughout the NIR spectrum and reduction of transmission in the UV spectrum.

TECHNICAL INFORMATION



CUSTOM

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](#).

COMPATIBLE MOUNTS