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TECHSPEC® 25.4mm Dia., Uncoated, IR Ultrafast Thin Window

Stock **#11-753** **7 In Stock**

- 1 + **C$189**.00

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Volume Pricing	
Qty 1-5	**C$189.00** each
Qty 6-25	**C$170.80** each
Qty 26-49	**C$161.00** each
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Product Downloads

General

Type:
Ultrafast Window

Type of Window:
Glass

Physical & Mechanical Properties

Diameter (mm):
25.40 +0.00/-0.10

Thickness (mm):
1.00 ±0.10

Bevel:
Protective as needed

Clear Aperture (%):
90

Edges:
Fine Ground

Parallelism (arcsec):
≤30

Poisson's Ratio:
0.16

Young's Modulus (GPa):
73

Knoop Hardness (kg/mm^2):
522.00

Optical Properties

Coating:
Uncoated

Substrate:
Fused Silica IR Grade

Index of Refraction (n_d):
1.458

Surface Quality:
20-10

Transmitted Wavefront, P-V:
λ/6

Abbe Number (v_d):
67.8

Wavelength Range (nm):
200 - 3500

Material Properties

Density (g/cm^3):
2.20

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)

Fused Silica Grade:
7979 0G

Regulatory Compliance

Certificate of Conformance:
View

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.

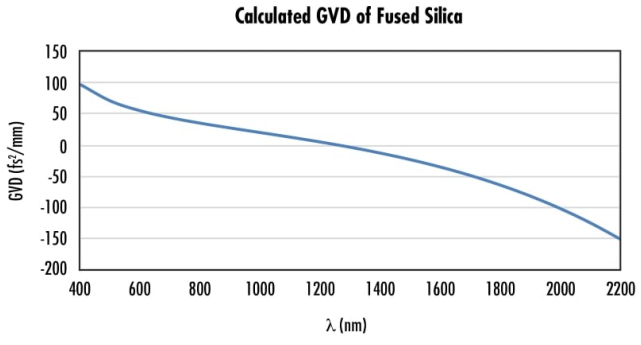
Product Details

- 1mm Thickness for Limited GDD
- Low Loss Broadband IBS Anti-Reflection Coating
- Designs for Wavelengths from 370nm to 2200nm
- Coating GDD of ±30fs^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 2.2µm. 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



Compatible Mounts

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