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TECHSPEC® Ultrafast Thin Windows


- 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

Common Specifications

Physical & Mechanical Properties

Bevel:	Protective as needed	Clear Aperture (%):	90
Thickness (mm):	1.00 $\pm$ 0.10	Edges:	Fine Ground
Knoop Hardness (kg/mm²):	522.00	Parallelism (arcsec):	≤ 30
Poisson's Ratio:	0.16	Young's Modulus (GPa):	73

Optical Properties

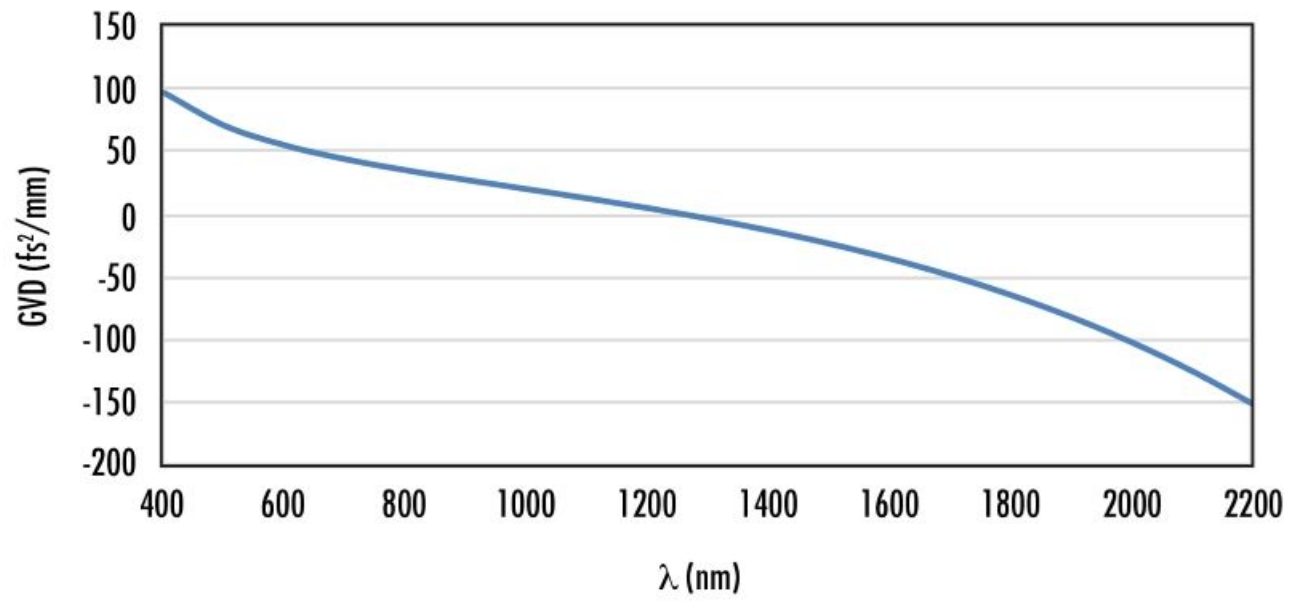
Abbe Number (v_d):	67.8	Index of Refraction (n_d):	1.458
Surface Quality:	20-10	Transmitted Wavefront, P-V:	$\lambda/6$

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
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Technical Information

Calculated GVD of Fused Silica



Products

Dia. (mm)	Thickness (mm)	Coating	Stock Number	Price	Buy
12.70	1.00	BBAR (370-550nm)	#11-746	£115.57 Volume Pricing	Contact Us
25.40	1.00	BBAR (370-550nm)	#11-747	£162.84 Volume Pricing	4 In Stock
50.80	1.00	BBAR (370-550nm)	#11-748	£253.90 Volume Pricing	20+ In Stock
12.70	1.00	BBAR (700-900nm)	#11-743	£115.57 Volume Pricing	20+ In Stock
25.40	1.00	BBAR (700-900nm)	#11-744	£162.84 Volume Pricing	16 In Stock
50.80	1.00	BBAR (700-900nm)	#11-745	£253.90 Volume Pricing	10 In Stock
12.70	1.00	BBAR (950-1150nm)	#11-740	£115.57 Volume Pricing	20+ In Stock
25.40	1.00	BBAR (950-1150nm)	#11-741	£162.84 Volume Pricing	20+ In Stock
50.80	1.00	BBAR (950-1150nm)	#11-742	£253.90 Volume Pricing	16 In Stock
12.70	1.00	BBAR (1900-2200nm)	#11-737	£122.57 Volume Pricing	14 In Stock
25.40	1.00	BBAR (1900-2200nm)	#11-738	£174.22 Volume Pricing	14 In Stock
50.80	1.00	BBAR (1900-2200nm)	#11-739	£265.28 Volume Pricing	12 In Stock
12.70	1.00	Uncoated	#11-749	£85.80 Volume Pricing	Contact Us
25.40	1.00	Uncoated	#11-750	£101.56 Volume Pricing	20+ In Stock
50.80	1.00	Uncoated	#11-751	£176.85 Volume Pricing	20+ In Stock
12.70	1.00	Uncoated	#11-752	£92.80 Volume Pricing	20+ In Stock

25.40	1.00	Uncoated	#11-753	£108.56 Volume Pricing	10 In Stock
50.80	1.00	Uncoated	#11-754	£195.24 Volume Pricing	20+ In Stock



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