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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

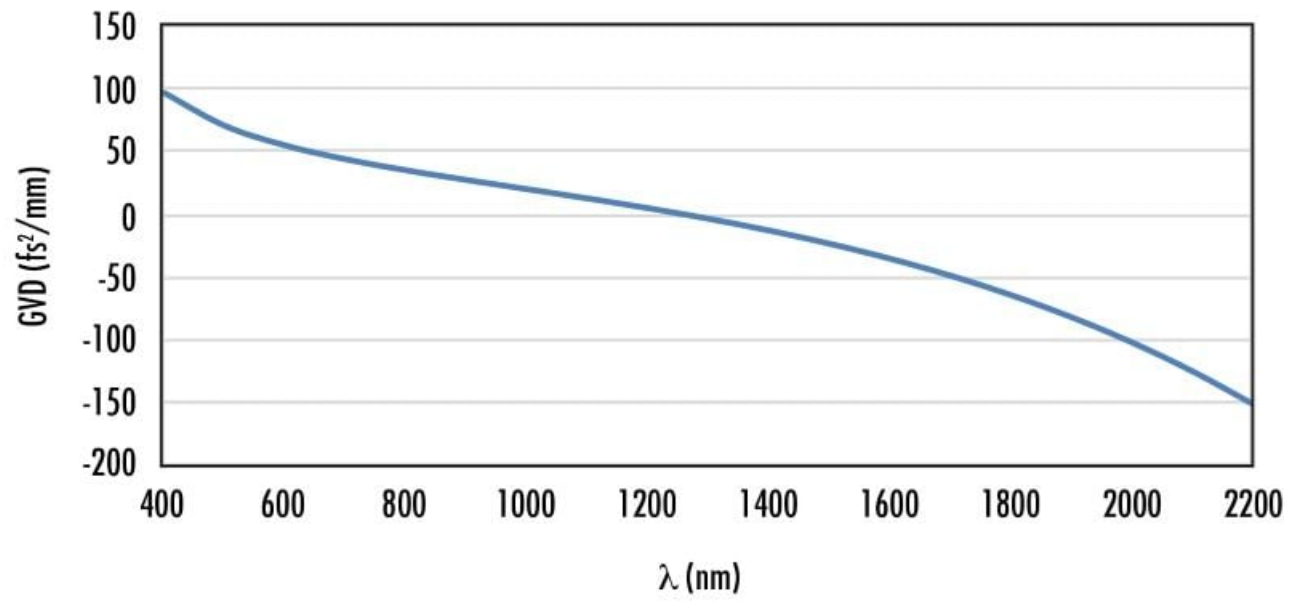
Abbe Number (v_d):	67.8	Index of Refraction (n_d):	1.458
Surface Quality:	20-10	Transmitted Wavefront, P-V:	$\lambda/6$

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	S\$197.14 Volume Pricing	Contact Us
25.40	1.00	BBAR (370-550nm)	#11-747	S\$277.79 Volume Pricing	4 In Stock
50.80	1.00	BBAR (370-550nm)	#11-748	S\$433.12 Volume Pricing	20+ In Stock
12.70	1.00	BBAR (700-900nm)	#11-743	S\$197.14 Volume Pricing	20+ In Stock
25.40	1.00	BBAR (700-900nm)	#11-744	S\$277.79 Volume Pricing	15 In Stock
50.80	1.00	BBAR (700-900nm)	#11-745	S\$433.12 Volume Pricing	10 In Stock
12.70	1.00	BBAR (950-1150nm)	#11-740	S\$197.14 Volume Pricing	20+ In Stock
25.40	1.00	BBAR (950-1150nm)	#11-741	S\$277.79 Volume Pricing	20+ In Stock
50.80	1.00	BBAR (950-1150nm)	#11-742	S\$433.12 Volume Pricing	11 In Stock
12.70	1.00	BBAR (1900-2200nm)	#11-737	S\$209.09 Volume Pricing	14 In Stock
25.40	1.00	BBAR (1900-2200nm)	#11-738	S\$297.21 Volume Pricing	14 In Stock
50.80	1.00	BBAR (1900-2200nm)	#11-739	S\$452.53 Volume Pricing	12 In Stock
12.70	1.00	Uncoated	#11-749	S\$146.36 Volume Pricing	Contact Us
25.40	1.00	Uncoated	#11-750	S\$173.25 Volume Pricing	20+ In Stock
50.80	1.00	Uncoated	#11-751	S\$301.69 Volume Pricing	20+ In Stock
12.70	1.00	Uncoated	#11-752	S\$158.31 Volume Pricing	20+ In Stock

25.40	1.00	Uncoated	#11-753	S\$185.19 Volume Pricing	10 In Stock
50.80	1.00	Uncoated	#11-754	S\$333.05 Volume Pricing	20+ In Stock



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