

TECHSPEC® 12.7mm Dia., 0.5mm Thick, NIR I AR Coated Sapphire Window



Stock **#20-850** ☐ In Stock

-

1

+

C\$97.30

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Qty 1-24
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Abbe Number (v_d):
72.24

Axis Orientation:
Random

Bevel:
Protective as needed

Birefringence (n_o - n_e):

0.008 for Visible Light Orthogonal to Optical Axis
Clear Aperture (%) : ≥90
Clear Aperture CA (mm) : 11.43
Diameter (mm) : 12.70 ±0.05
Thickness (mm) : 0.50 ±0.05
Coating : NIR I (600-1050nm)
Coating Specification : R _{avg} ≤0.5% @ 600 - 1050nm
Coefficient of Thermal Expansion CTE (10⁻⁶/°C) : 8.8
Density (g/cm³) : 3.97
Edges : Fine Ground
Index of Refraction n_d : 1.77
Knoop Hardness (kg/mm²) : 1900
Parallelism (arcmin) : ≤3.5
Poisson's Ratio : 0.27
Substrate : Sapphire (Al ₂ O ₃)
Surface Flatness (P-V) : 2λ (typical)
Surface Quality : 80-50
Type : Protective Window
Wavelength Range (nm) : 600 - 1050
Young's Modulus (GPa) : 435

Regulatory Compliance

RoHS 2015 : Compliant
Certificate of Conformance : View
Reach 235 : Compliant