

TECHSPEC® 12.7mm Dia., 2mm Thick, MgF₂ AR Coated Sapphire Window



Stock **#20-638** [CONTACT US](#)

- 1 + **A\$103.20**

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Qty 1-24
A\$103.20
Qty 25+
A\$82.40
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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):
2.00 ±0.05

Coating:
MgF₂ (400-700nm)

Coating Specification:
R_{avg} ≤1.75% @400 - 700nm

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 (Al₂O₃)

Surface Flatness (P-V):
2λ (typical)

Surface Quality:
80-50

Type:
Protective Window

Wavelength Range (nm):
400 - 700

Young's Modulus (GPa):
435

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 235:
[Compliant](#)