

50mm Diameter, Outdoor, Hydrophobic Window

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Stock **#34-527** 20+ In Stock

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1

+

€100^{.00}

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Volume Pricing	
Qty 1-5	€100,00 each
Qty 6-25	€90,00 each
Qty 26-99	€85,00 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Protective Window	Type:
Outdoor	Note:

Physical & Mechanical Properties	
Clear Aperture CA (mm):	

45.00	
50.00 +0.00/-0.25	Diameter (mm):
1.10 ±0.1	Thickness (mm):
Protective as needed	Bevel:
90.00	Clear Aperture (%):
Fine Ground	Edges:
0.20	Poisson's Ratio:
64	Young's Modulus (GPa):
480.00	Knoop Hardness (kg/mm²):

Optical Properties	
Hydrophobic (425-675nm)	Coating:
BOROFLOAT®	Substrate: ☐
1.472	Index of Refraction (n _d):
80-50	Surface Quality:
65.41	Abbe Number (v _d):
R _{avg} <0.5% @ 425 - 675nm	Coating Specification:
425 - 675	Wavelength Range (nm):

Material Properties	
2.23	Density (g/cm³):
3.25	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
Water: 90 - 110 Oil: 75 - 80	Contact Angle (°):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

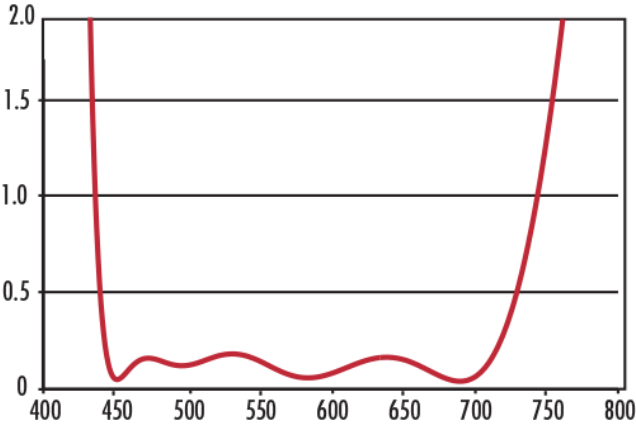
Product Details

- Oil and Water Repellent Coating
- Ideal for Industrial and Harsh Environments
- AR Coated for <0.5% Reflection in the Visible Spectrum

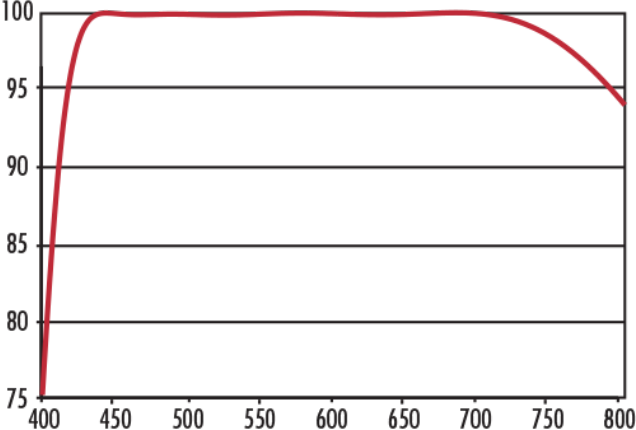
Hydrophobic Windows are designed to repel oil (oleophobic) and other liquids (hydrophobic), facilitating cleaning and ensuring maximum transmission of incident light. Hydrophobic treated surfaces cause liquids to form droplets on contact rather than be absorbed or spread across the surface of the optic. Hydrophobic Windows feature anti-reflection coatings to provide less than 0.5% reflection per surface from 425 – 675nm. These windows are ideal for harsh environments, portable handheld devices, or biometric measurement devices.

Indoor Hydrophobic Windows are ideal for applications where cleaning or abrasion is expected while Outdoor Hydrophobic Windows provide better performance both at elevated temperatures and under direct UV light exposure.

Technical Information



Transmittance (%) vs. Wavelength (nm)
Hydrophobic Window Reflectivity Curve



Transmittance (%) vs. Wavelength (nm)
Hydrophobic Window Transmission Curve

Custom

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

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Compatible Mounts