

12.5mm Diameter, Outdoor, Hydrophobic Window

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Stock **#34-524** 8 In Stock

-

1

+

€89⁰⁰

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Volume Pricing	
Qty 1-5	€89,00 each
Qty 6-25	€80,00 each
Qty 26-99	€76,00 each
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Product Downloads

General

Protective Window	Type:
Outdoor	Note:

Physical & Mechanical Properties

Clear Aperture CA (mm):

11.25	
	Diameter (mm):
12.50 +0.00/-0.25	
	Thickness (mm):
1.10 ±0.1	
	Bevel:
Protective as needed	
	Clear Aperture (%):
90.00	
	Edges:
Fine Ground	
	Poisson's Ratio:
0.20	
	Young's Modulus (GPa):
64	
	Knoop Hardness (kg/mm²):
480.00	

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

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

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

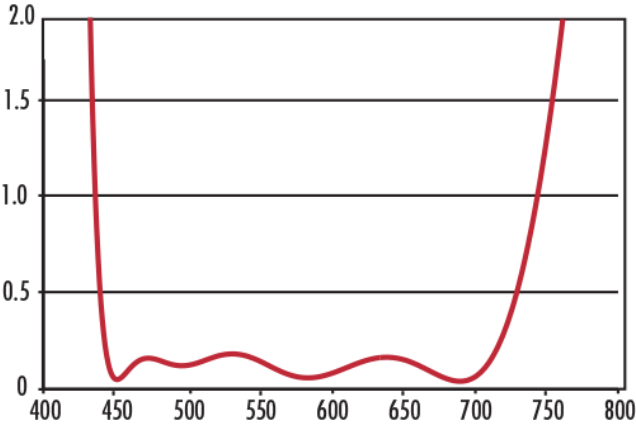
Product Details

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

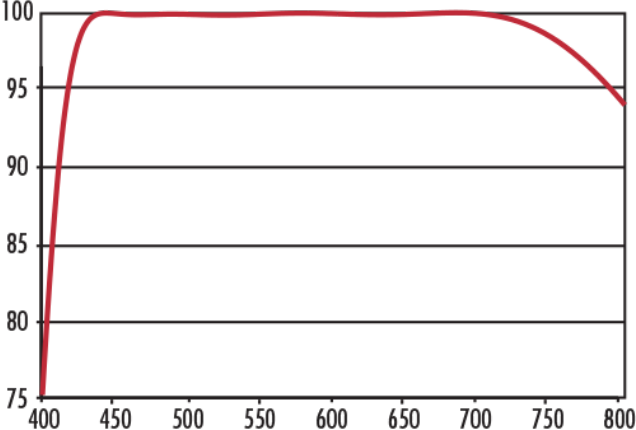
Hydrophobic Windows are designed to repel oil (oleophobic) and other liquids (hydrophobic), facilitating cleaning and ensuring maximum transmission of incident light. Hydrophobic treated surfaces cause liquids to form droplets on contact rather than be absorbed or spread across the surface of the optic. 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