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## 5mm Diameter, Outdoor, Hydrophobic Window

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### Product Downloads

#### General

Protective Window

Type:

Glass

Type of Window:

Outdoor

Note:

## Physical & Mechanical Properties

4.50 **Clear Aperture CA (mm):**

5.00 +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/mm<sup>2</sup>):**

## Optical Properties

Hydrophobic (425-675nm) **Coating:**

**BOROFLOAT®** **Substrate:**

1.472 **Index of Refraction (n<sub>d</sub>):**

80-50 **Surface Quality:**

65.41 **Abbe Number (v<sub>d</sub>):**

R<sub>avg</sub> <0.5% @ 425 - 675nm **Coating Specification:**

425 - 675 **Wavelength Range (nm):**

## Material Properties

2.23 **Density (g/cm<sup>3</sup>):**

3.25 **Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):**

Water: 90 - 110  
Oil: 75 - 80 **Contact Angle (°):**

## Regulatory Compliance

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

**Compliant** **Reach 247:**

## Need different specs or modifications?

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

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

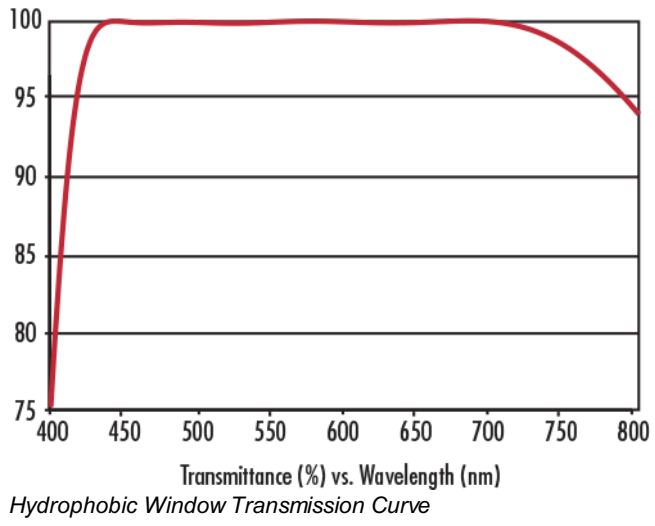
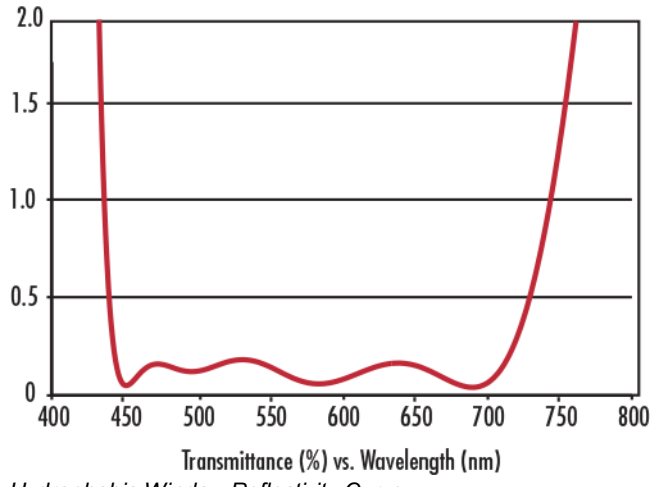
## Product Details

- 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



## Compatible Mounts