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12.5mm Diameter



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1 €21^{.50}

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Volume Pricing	
Qty 1-49	€21,50 each
Qty 50-99	€17,00 each
Qty 100-199	€16,00 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

General

Type: Protective Window

Type of Window: Plastic

Physical & Mechanical Properties

Diameter (inches): 0.49

Diameter (mm): 12.50 ±0.3

Thickness (mm): 1.50 ±0.15

Optical Properties

Coating: Uncoated

Substrate: Thermoset ADC (CR-39®)

Index of Refraction (n_d): 1.501

Transmission (%): >90 (typical)

Abbe Number (v_d): 59.2

Wavelength Range (nm): 400 - 1500

Material Properties

Density (g/cm³): 1.320

Environmental & Durability Factors

Operating Temperature (°C): 100 Continuous, 130 for 1 hour

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Need different specifications?

Edmund Optics offers comprehensive custom manufacturing capabilities to meet your specific requirements. Whether in the prototyping phase or ready for volume production, our experienced engineers are here to assist—from concept to final production.

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](#).

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Application
s. Our experienced

Product Details

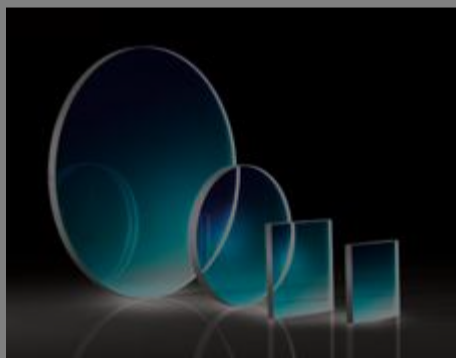
- Lightweight Alternative to Glass Windows
- Excellent Thermal and Chemical Resistance
- Higher Transmission than Similar Transparent Plastics

Clear Optical Cast Plastic Windows are a lightweight and durable option compared to a glass alternative. These windows have a high transmission and low haze, have 25 - 50 times greater abrasion resistance, and are resistant to all types of chemicals and solvents (acetone, acids, alkali and alcohols). Due to their construction, these windows are able to be drilled using a carbide bit for various mounting needs.

Clear Optical Cast Plastic Windows are uncoated, and are available in circular, rectangular, and square options.

Technical Information

Frequently Purchased Together



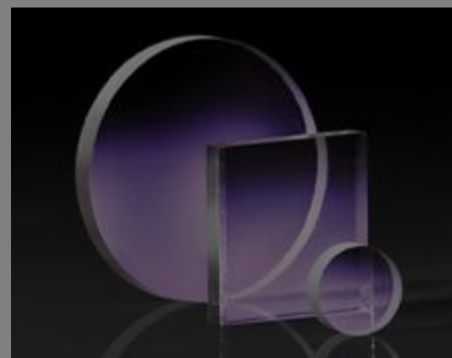
#02-105 - 12.5mm Diameter Float Glass Window
€15,00

Qty



#48-170 - 25.4mm Dia f/1 Uncoated, Molded Acrylic Aspheric Lens
€67,00

Qty



#43-893 - 50mm Diameter x 3.3mm Thickness, Uncoated, BOROFLOAT® Window
€34,25

Qty



#45-961 - 3.0mm Dia. x 4.5mm FL, NIR I Coated, Plano-Convex Lens
€73,50

Qty



Resources

Media Type

- Application Note
- Technical Tool
- Video
- Glossary
- FAQ

APPLICATION NOTE

Anti-Reflection (AR) Coatings

APPLICATION NOTE

An Introduction to Optical Coatings

TECHNICAL TOOL

Beam Displacement Calculator

APPLICATION NOTE

Understanding

VIDEO

Optical

APPLICATION NOTE

Optical Glass

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