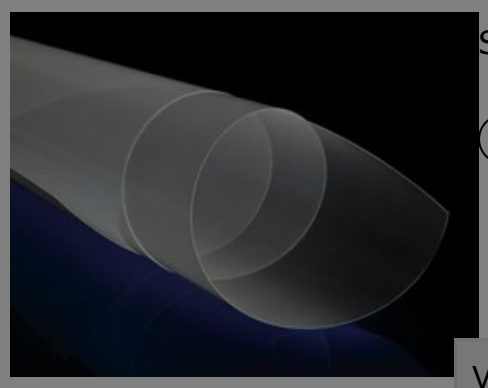
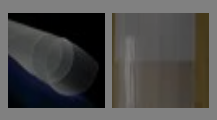
12" x 12" Translu





- 1 +

€88,50

ADD TO CART

Volume Pricing	
Qty 1-5	**€88,50** each
Qty 6-25	**€80,00** each
Qty 26-99	**€75,00** each
Need More?	**Request Quote**

ⓘ 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

Dimensions (inches):	12.00 x 12.00	**Dimensions (mm):**	304.80 x 304.80
Thickness (inches):	0.015	**Thickness (mm):**	0.38
Length (mm):	304.80	**Width (mm):**	304.80
Young's Modulus (GPa):	0.40 - 1.24		

Optical Properties

Coating:	Uncoated	**Color:**	Translucent
Substrate: ⓘ	Polymer Film	**Index of Refraction (n_d):**	Visible (Sodium D Line): 1.52 8-14µm: 1.53 15µm+: 1.48
Wavelength Range (nm):	8000 - 14000		

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):	11 - 13	**Flexural Modulus (psi):**	(100-260) x 10^3
Shore Hardness:	D60-70		

Environmental & Durability Factors

Operating Temperature (°C):	100 (Max.)

Regulatory Compliance

RoHS 2015:	**Compliant**
Reach 242:	**Compliant**

Product Details

- Excellent Optics for Infrared Detectors
- Minimal Absorption Loss from 8 - 14µm
- Easily Cut to Size
- Also Suitable for Terahertz (THz) Applications

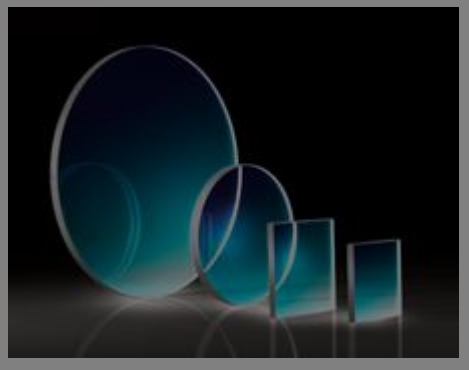
Infrared (IR) Material Windows are molded in an extremely thin and flexible 0.38mm thickness, milky white plastic. The thin design consistent across the window surface, large apertures, and minimal thermal expansion coupled with low absorption from 8 - 14µm (in comparison to other polymer materials) make them ideal for a range of infrared applications. High transmission from 15um to 40um also makes these windows ideal for terahertz applications.

Technical Information

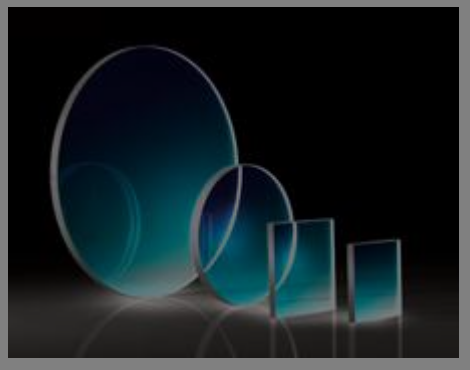
Effect of Sunlight	None to Slight
Effect of Ultraviolet	UV Stabilized
Effect of Weak Acids	Very Little
Effect of Strong Acids	Attacked by Oxidizing Acids
Effect of Weak Alkalies	Very Little
Effect of Strong Alkalies	Very Little
Effect of Organic Solvents	Little below 60°C (140°F)

Frequently Purchased Together

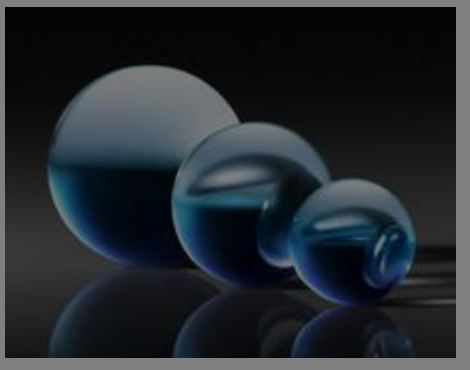
#27-400 - 5mm Diameter, 4-6λ Mirror
€15,25
Qty



#30-971 - 49mm Diameter Float Glass Window
€25,50
Qty



#32-740 - 41 x 63.5mm AR Coated Float Glass Window
€27,25
Qty



#32-747 - 8.0mm Diameter, N-BK7 Ball Lens
€51,00
Qty

Resources

Media Type

- [ ] Application Note
- [ ] Scientific Paper
- [ ] Video
- [ ] Glossary
- [ ] Technical Tool
- [ ] FAQ

APPLICATION NOTE

APPLICATION NOTE

SCIENTIFIC PAPER

Advantages of using engineered chalcogenide...

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region:

VIDEO

Infrared Light

GLOSSARY

Short Wave Infrared (SWIR)

TECHNICAL TOOL

Beam Displacement Calculator

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