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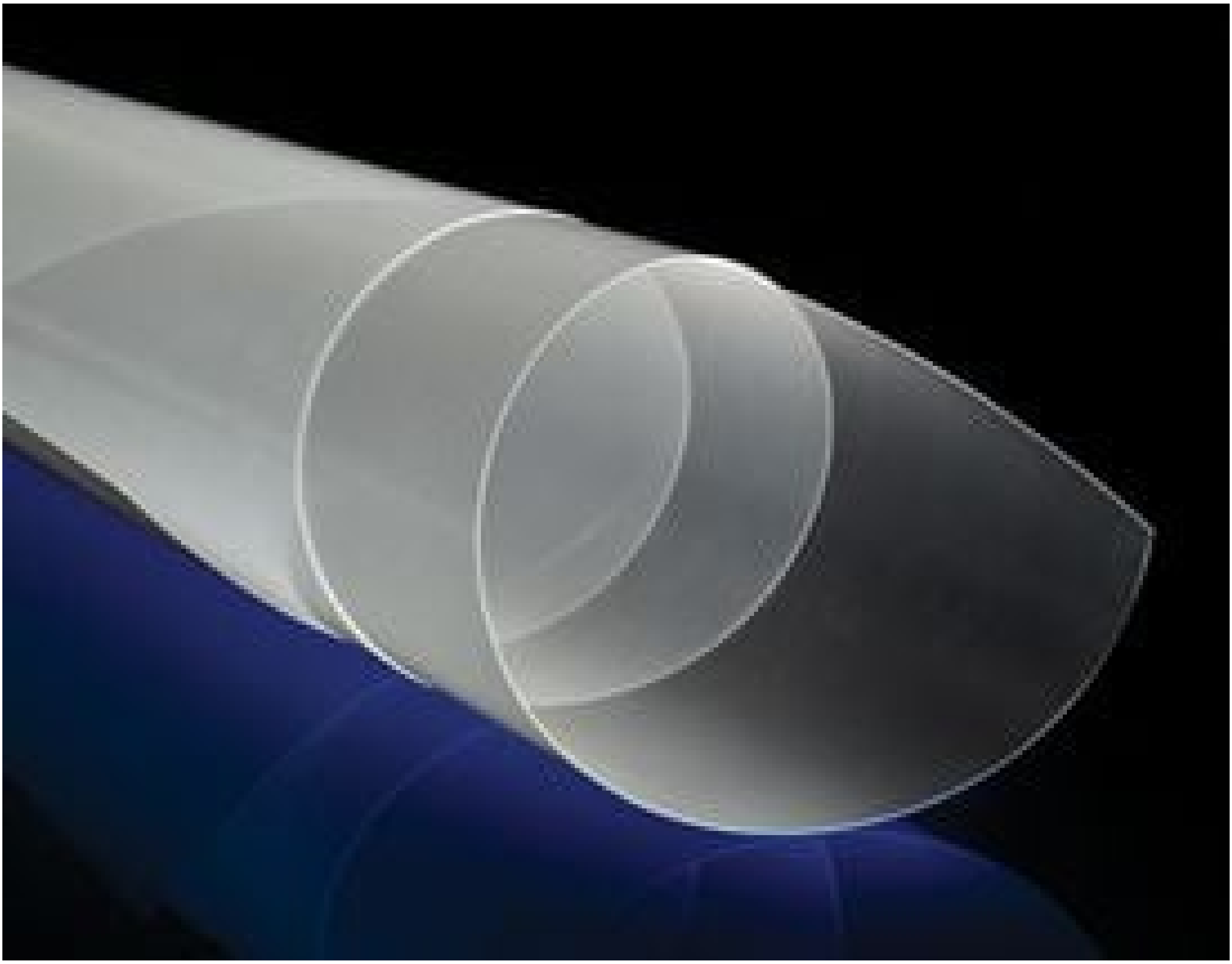
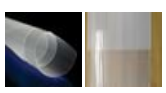
24" x 24" Translucent, IR Material Window





Stock **#88-610** **5 In Stock**

- 1 + **£93**.60

ADD TO CART

Volume Pricing	
Qty 1-5	**£93.60** each
Qty 6-25	**£84.00** each
Qty 26-99	**£80.00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Protective Window

Type of Window:
Plastic

Physical & Mechanical Properties

Dimensions (inches):
24.00 x 24.00

Dimensions (mm):
609.60 x 609.60

Thickness (inches):
0.015

Thickness (mm):
0.38

Length (mm):
609.60

Width (mm):
609.60

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

Certificate of Conformance:
View

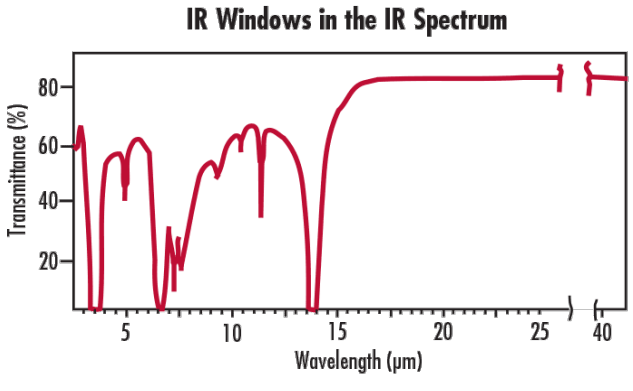
Reach 242:
Compliant

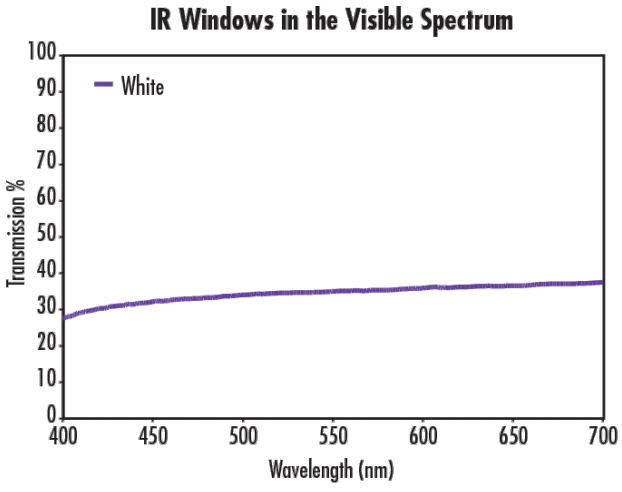
Product Details

- 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)

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