

## 12" x 12" White, IR Material Window



Stock #32-809 **14 In Stock**

⊖ 1 ⊕ €88<sup>00</sup>

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Volume Pricing	
Qty 1-5	€88,50 each
Qty 6-25	€80,00 each
Qty 26-99	€75,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

#### General

Protective Window  
Type:  
Plastic  
Type of Window:

## Physical & Mechanical Properties

12.00 x 12.00 **Dimensions (inches):**

304.80 x 304.80 **Dimensions (mm):**

0.015 **Thickness (inches):**

0.38 **Thickness (mm):**

304.80 **Length (mm):**

304.80 **Width (mm):**

0.40 - 1.24 **Young's Modulus (GPa):**

## Optical Properties

Uncoated **Coating:**

White **Color:**

Polymer Film **Substrate:** □

Visible (Sodium D Line): 1.52  
8-14 $\mu$ m: 1.53  
15 $\mu$ m+: 1.48 **Index of Refraction ( $n_d$ ):**

8000 - 14000 **Wavelength Range (nm):**

## Material Properties

11 - 13 **Coefficient of Thermal Expansion CTE ( $10^{-6}/^{\circ}\text{C}$ ):**

(100-260) x 10<sup>3</sup> **Flexural Modulus (psi):**

D60-70 **Shore Hardness:**

## Environmental & Durability Factors

100 (Max) **Operating Temperature ( $^{\circ}\text{C}$ ):**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

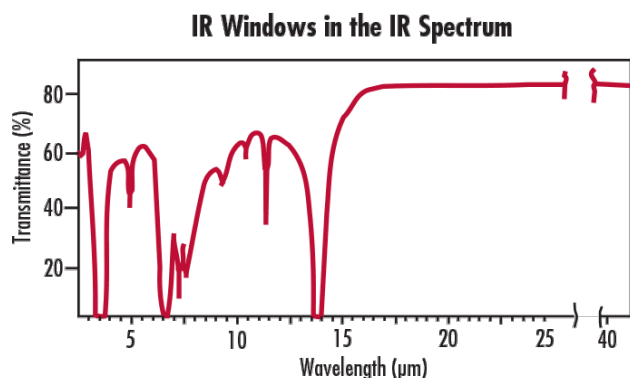
[Compliant](#) **Reach 242:**

## Product Details

- Excellent Optics for Infrared Detectors
- Minimal Absorption Loss from 8 - 14 $\mu$ m
- Easily Cut to Size

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 - 14 $\mu$ m make them ideal for a range of infrared applications.

## Technical Information



**IR Windows in the Visible Spectrum**



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)