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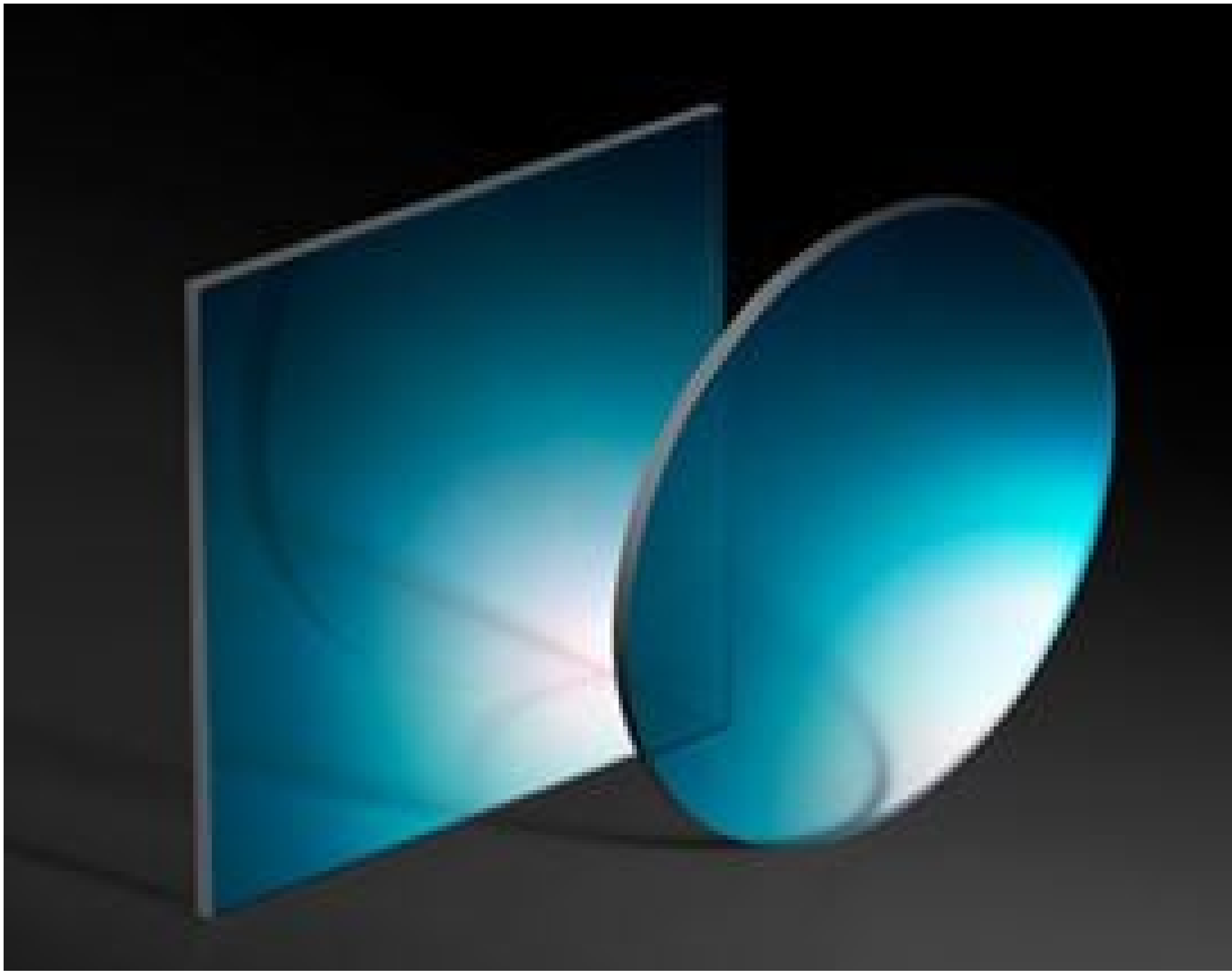
# 2" x 2", BBAR (400-1000nm) Coated, Plastic Polycarbonate Window



Stock **#21-353** **1 In Stock**

- 1 + **€58**.50

**ADD TO CART**

| Volume Pricing | |
|---|---|
| Qty 1-5 | **€58,50** each |
| Qty 6-25 | **€47,00** each |
| Qty 26-49 | **€44,00** each |
| Need More? | Request Quote |

Prices shown are exclusive of VAT/local taxes

Product Downloads

## General

**Type:**
Protective Window

## Physical & Mechanical Properties

**Clear Aperture CA (mm):**
45.72 x 45.72

**Dimensions (inches):**
2.00 x 2.00

| | |
|---|---|
| **Dimensions (mm):** | 50.80 x 50.80 ±0.254 |
| **Thickness (inches):** | 0.06 |
| **Thickness (mm):** | 1.52 ±0.1 |
| **Length (mm):** | 50.80 |
| **Width (mm):** | 50.80 |
| **Bevel:** | Protective as needed |
| **Edges:** | Smooth, Machined |

## Optical Properties

| | |
|---|---|
| **Coating:** | BBAR (400-1000nm) |
| **Substrate:** | Polycarbonate |
| **Index of Refraction ($n_d$):** | 1.585 |
| **Abbe Number ($v_d$):** | 34 |
| **Coating Specification:** | $R_{avg}$ ≤1.25% @ 400 - 1000nm |
| **Wavelength Range (nm):** | 400 - 1000 |

## Material Properties

| | |
|---|---|
| **Coefficient of Thermal Expansion CTE ($10^{-6}$/°C):** | 68 |

## Regulatory Compliance

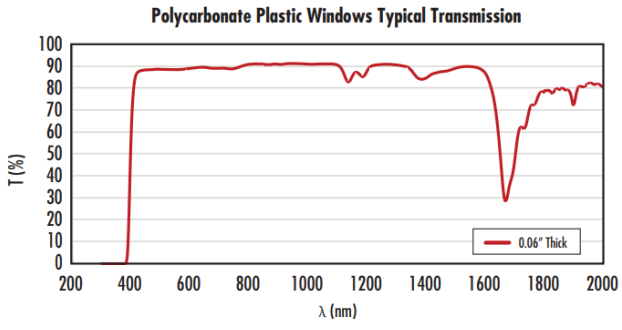
| | |
|---|---|
| **RoHS 2015:** | Compliant |
| **Certificate of Conformance:** | View |
| **Reach 235:** | Compliant |

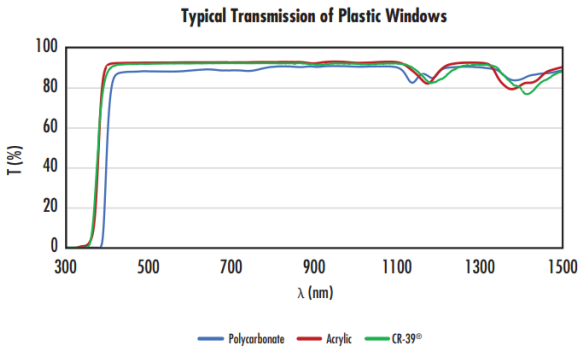
# Product Details

- High Visible Light Transmission
- Excellent Thermal Stability
- Durable and Lightweight
- **Acrylic (PMMA) Plastic Windows** Also Available

Polycarbonate Plastic Windows are a lightweight alternative to glass windows. Combining durability and high transmission, these windows are an ideal cost-effective solution for harsh environments and displays. Compared to PMMA acrylic windows, polycarbonate windows are more impact resistant and stronger but are more susceptible to scratches. Polycarbonate Plastic Windows feature lower water absorption and a higher softening temperature than PMMA, but their higher index of refraction leads to higher Fresnel reflections without AR coatings. Their strength and stability make these windows ideal for use in medical and industrial applications.

# Technical Information




Typical Transmission of Plastic Windows
100
80
60
40
20
0
T (%)
300
500
700
900
1100
1300
1500
λ (nm)
Polycarbonate
Acrylic
CR-39®

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