

## 3" Diameter, Optical Cast Plastic IR Longpass Filter



Stock #43-950 **20+ In Stock**

MRP ₹3,683

Price inclusive of all taxes

**ADD TO CART**

### Volume Pricing

Qty 1-49	₹3,683 each
Qty 50-99	₹3,228 each
Qty 100-249	₹2,902 each
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### Product Downloads

### General

Longpass Filter **Type:**

### Physical & Mechanical Properties

76.20 **Diameter (mm):**

3.00 **Diameter (inches):**

1.50 Nominal **Thickness (mm):**

±0.3 **Dimensional Tolerance (mm):**

## Optical Properties

Thermoset ADC (CR-39®) **Substrate:**

Uncoated **Coating:**

Black **Color:**

1.501 @ 20°C **Index of Refraction (n<sub>d</sub>):**

>90 (typical) **Transmission (%):**

57.00 **Abbe Number (v<sub>d</sub>):**

## Material Properties

1.320 at 20°C **Density (g/cm<sup>3</sup>):**

## Environmental & Durability Factors

100 Continuous, 130 One Hour Max **Operating Temperature (°C):**

## Regulatory Compliance

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

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

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

United States **Country of Origin:**

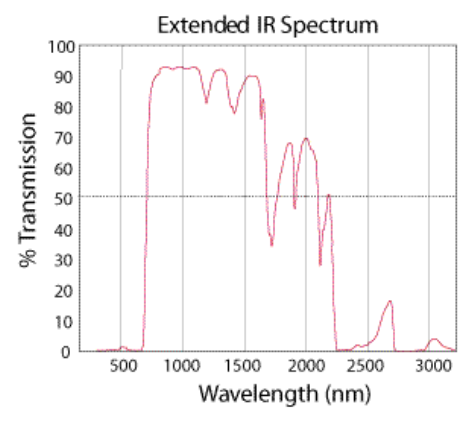
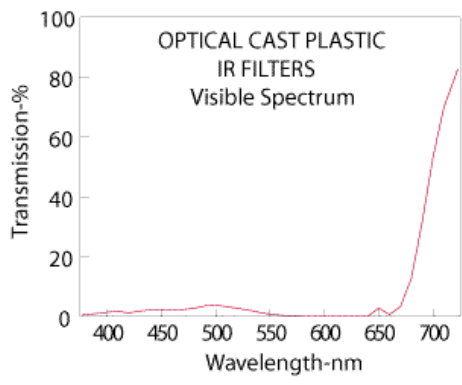
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## Product Details

- Lightweight Plastic
- Excellent Thermal and Chemical Resistance

Optical Cast Infrared (IR) Longpass Filters are ideal for blocking visible light while passing near infrared wavelengths. New plastic technology has produced filters with properties that can satisfy a variety of optical and environmental needs at half the weight of glass filters. Compared to similarly available transparent plastics, Thermoset ADC filters have the highest transmission and lowest haze, have at least 25-50 times greater abrasion resistance, and are resistant to all types of chemicals and solvents (acetone, acids, alkali, and alcohols). Optical Cast Infrared (IR) Longpass Filters have excellent thermal characteristics and are resistant to pits from hot sparks resulting from welding or grinding processes. The filters can also be easily drilled with high-speed carbide bits for all mounting types.

## Technical Information



## Compatible Mounts