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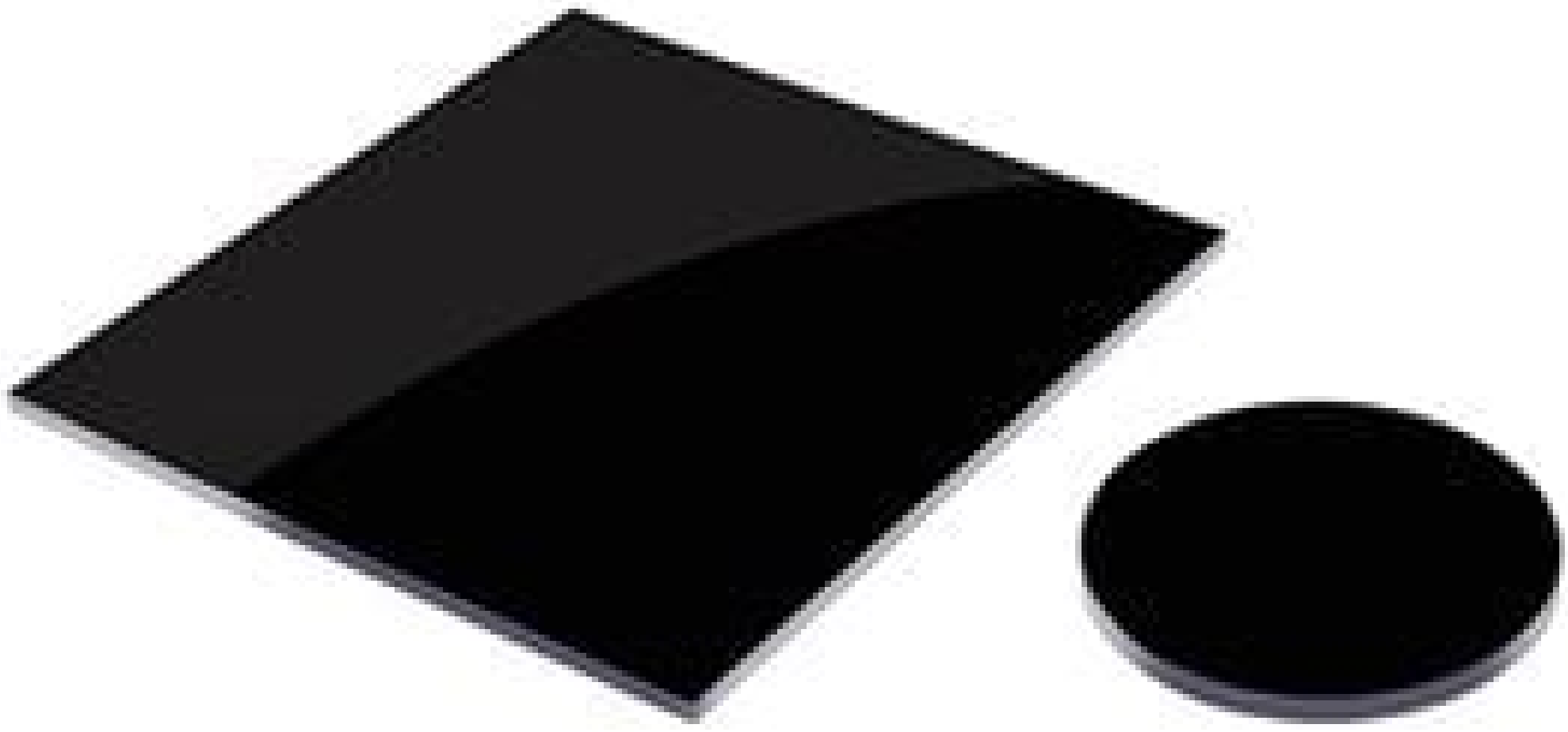
12.5mm Diameter, Optical Cast Plastic IR Longpass Filter



Stock **#12-764** **20+ In Stock**

- 1 + **£14.20**

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Volume Pricing	
Qty 1-49	**£14.20** each
Qty 50-99	**£12.40** each
Qty 100-249	**£9.80** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Longpass Filter

Physical & Mechanical Properties

Diameter (mm):
12.50

Diameter (inches):
0.49

Thickness (mm):
1.50 Nominal

Dimensional Tolerance (mm):
±0.3

Optical Properties

Substrate:
Thermoset ADC (CR-39®)

Coating:
Uncoated

Color:
Black

Index of Refraction (n_d):
1.501 @ 20°C

Transmission (%):
>90 (typical)

Abbe Number (v_d):
57.00

Material Properties

Density (g/cm^3):
1.320 at 20°C

Environmental & Durability Factors

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

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

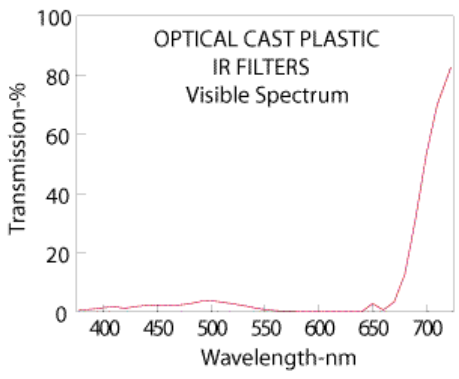
Reach 242:
Compliant

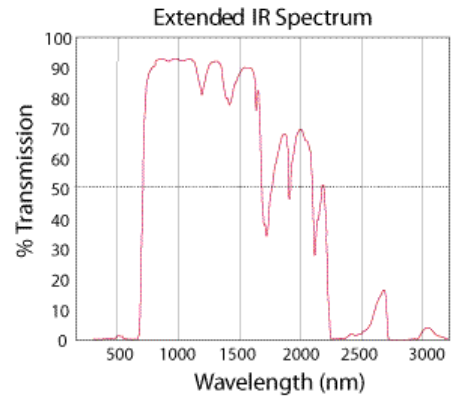
Product Details

- 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

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