

# 1" Dia. Red Optical Cast Plastic Filter



Stock #43-942 **11 In Stock**

€20<sup>50</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-49	€20,50 each
Qty 50-99	€19,50 each
Qty 100-249	€17,25 each
Need More?	<a href="#">Request Quote</a>

**!** Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Color Filter Type:

**Physical & Mechanical Properties**

25.40 Diameter (mm):

1.00 Diameter (inches):

Thickness (mm):  
1.50

Dimensional Tolerance (mm):  
±0.3

## Optical Properties

Substrate:   
Thermoset ADC (CR-39®)

Coating:  
Uncoated

Color:  
Red

Index of Refraction ( $n_d$ ):  
1.501

Transmission (%):  
>20

Abbe Number ( $v_d$ ):  
57.00

## Material Properties

Density ( $g/cm^3$ ):  
1.320 at 25°

## Environmental & Durability Factors

Operating Temperature (°C):  
100 Continuous, 130 for 1 Hour

## Regulatory Compliance

RoHS 2015:  
Compliant

Certificate of Conformance:  
[View](#)

Reach 242:  
Compliant

## Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

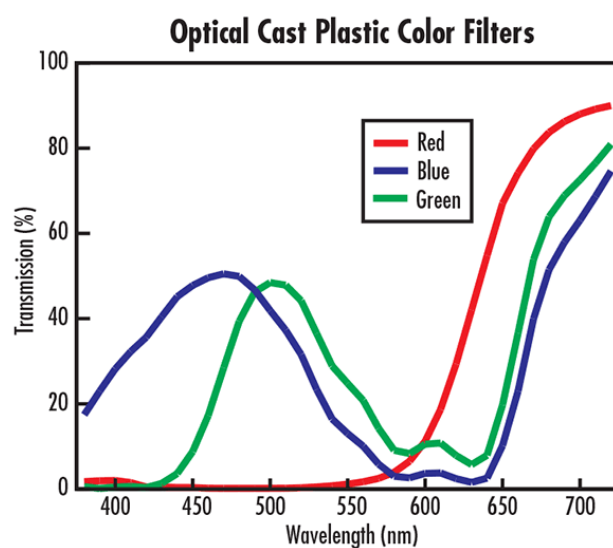
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- Resistant to All Types of Chemicals and Solvents (Acetone, Acids, Alkali and Alcohols)
- Excellent Thermal Resistance
- Easily Drilled with High Speed Carbide Bits for Mounting

Optical Cast Plastic Color Filters have excellent thermal resistance. Traditionally, the limitations of plastic materials have made them unsuitable for demanding optical applications. However, advancement in plastic technology has produced filters with properties that can satisfy a variety of optical and environmental needs—and at half the weight of glass. Optical Cast Plastic Color Filters are ideal for use as environmental displays and filters. These filters, with their Thermoset ADC substrate, are also available in custom sizes, shapes, colors, and styles for qualified high volume OEM applications.

## Technical Information



## Compatible Mounts

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