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12.7mm Dia f/2 VIS Coated, Molded Acrylic Aspheric Lens

Molded Acrylic Aspheric Lenses

Stock **#48-177** **20+ In Stock**

- 1 + **A$108**.80

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Volume Pricing	
Qty 1-10	**A$108.80** each
Qty 11-49	**A$91.20** each
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General

Type:

Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

12.70 ±0.1

Clear Aperture CA (mm):

11.4

Edge Thickness ET (mm):
2.00 ±0.1

Center Thickness CT (mm):
3.34

Bevel:
Protective as needed

Radius R (mm):
12.45

Optical Properties

Effective Focal Length EFL (mm):
25.40 @ 632.8nm

Numerical Aperture NA:
0.25

Back Focal Length BFL (mm):
23.20

Substrate:
PMMA

Focal Length Tolerance (%):
±1

Aspheric Design Wavelength (nm):
632.8

Coating:
BBAR (450-650nm)

Coating Specification:
R_{avg} <0.5% @ 450 - 650nm

f/#:
2.00

Abbe Number (v_d):
61.4

Index of Refraction (n_d):
1.49

Wavelength Range (nm):
450 - 650

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
632.8

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
70

Environmental & Durability Factors

Operating Temperature (°C):
80.00

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 242:
Compliant

Product Details

- Prescription Information Available
- Reduced Spherical Aberration
- Broadband AR Coating Option

Our molded acrylic aspheres are economical solutions for a variety of photonic applications. With available prescription information, these lenses are easily integrated into both benchtop and OEM applications. They are available uncoated and with broadband antireflection coatings. Standard diameter sizes of 0.5" and 1" allow them to be easily mounted using our full line of **lens mounts**.

Compatible Mounts

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