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12.7mm Dia f/1 VIS Coated, Molded Acrylic Aspheric Lens



Molded Acrylic Aspheric Lenses



Stock **#48-176** [CONTACT US](#)

S\$95⁻²⁰

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Volume Pricing	
Qty 1-10	S\$95.20 each
Qty 11-49	S\$79.80 each
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General

Aspheric Lens Type:

Physical & Mechanical Properties

12.70 ±0.1 Diameter (mm):

Clear Aperture CA (mm):

11.4

2.00 ±0.1 **Edge Thickness ET (mm):**

4.92 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

6.22 **Radius R (mm):**

Optical Properties

12.70 @ 632.8nm **Effective Focal Length EFL (mm):**

0.50 **Numerical Aperture NA:**

9.40 **Back Focal Length BFL (mm):**

PMMA **Substrate:** □

±1 **Focal Length Tolerance (%):**

632.8 **Aspheric Design Wavelength (nm):**

BBAR (450-650nm) **Coating:**

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

1 **f#:**

61.4 **Abbe Number (v_d):**

1.49 **Index of Refraction (n_d):**

450 - 650 **Wavelength Range (nm):**

Infinite **Conjugate Distance:**

632.8 **Focal Length Specification Wavelength (nm):**

Material Properties

70 **Coefficient of Thermal Expansion CTE (10⁻⁶/°C):**

Environmental & Durability Factors

80 **Operating Temperature (°C):**

Regulatory Compliance

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

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

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

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