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25.4mm Dia f/2 Uncoated, Molded Acrylic Aspheric Lens



Molded Acrylic Aspheric Lenses



Stock #48-171 **11 In Stock**

⊖ 1 ⊕ **A\$107⁻²⁰**

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Volume Pricing	
Qty 1-10	A\$107.20 each
Qty 11-49	A\$89.60 each
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General

Aspheric Lens **Type:**

Physical & Mechanical Properties

25.40 ±0.1 **Diameter (mm):**

Clear Aperture CA (mm):

23.9

Edge Thickness ET (mm):

4.00

Center Thickness CT (mm):

6.95

Bevel:

Protective as needed

Radius R (mm):

24.89

Optical Properties

Effective Focal Length EFL (mm):

50.80 @ 632.8nm

Numerical Aperture NA:

0.25

Back Focal Length BFL (mm):

46.2

Substrate:

PMMA

Focal Length Tolerance (%):

±1

Aspheric Design Wavelength (nm):

632.8

Coating:

Uncoated

f#:

2.00

Abbe Number (v_d):

61.4

Index of Refraction (n_d):

1.49

Wavelength Range (nm):

400 - 1100

Conjugate Distance:

Infinite

Focal Length Specification Wavelength (nm):

632.8

Material Properties

Coefficient of Thermal Expansion CTE ($10^{-6}/^{\circ}\text{C}$):

70

Environmental & Durability Factors

Operating Temperature ($^{\circ}\text{C}$):

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