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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\$108⁰⁰

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Volume Pricing	
Qty 1-10	A\$108.80 each
Qty 11-49	A\$91.20 each
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Product Downloads

General	
Aspheric Lens	Type:
Physical & Mechanical Properties	
12.70 ±0.1	Diameter (mm):
	Clear Aperture CA (mm):

11.4	
	Edge Thickness ET (mm):
2.00	
	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