

[See all 37 Products in Family](#)

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



Molded Acrylic Aspheric Lenses



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

⊖ 1 ⊕ £54⁴⁰

ADD TO CART

Volume Pricing	
Qty 1-10	£54.40 each
Qty 11-49	£45.60 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Aspheric Lens **Type:**

Physical & Mechanical Properties

12.70 ±0.1 **Diameter (mm):**

11.4	Clear Aperture CA (mm):
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: <input type="checkbox"/>
±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