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LightPath 355160 | 4mm Dia., 0.55 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-606** **9 In Stock**

Other Coating Options

- 1 + **€75**.00

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Volume Pricing	
Qty 1-10	**€75,00** each
Qty 11-49	**€67,50** each
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Product Downloads

General

Compatible Window:

Thickness: 1.20 (t) (mm)
Material: Polycarbonate

Lightpath Lens Code:

355160

Type:

Aspheric Lens

Typical Applications:
Collimate or Focus Laser Light

Physical & Mechanical Properties

Diameter (mm):
4.00 ±0.015

Clear Aperture CA (mm):
3

Edge Thickness ET (mm):
0.71

Center Thickness CT (mm):
1.43 ±0.05

Bevel:
Protective as needed

Distance from Window to Lens (D) (mm):
1.170

Optical Properties

Effective Focal Length EFL (mm):
2.73 @ 780nm

Numerical Aperture NA:
0.55

Substrate:
D-ZLaF52LA

Focal Length Tolerance (%):
±1

Aspheric Design Wavelength (nm):
780

Coating:
BBAR (600-1050nm)

Coating Specification:
R_{abs} <1.0% @ 600 - 1050nm

Surface Quality:
40-20

f/#:
0.91

Abbe Number (v_d):
40.79

Index of Refraction (n_d):
1.806

Wavelength Range (nm):
600 - 1050

Working Distance (mm):
2.37

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
780.00

Transmitted Wavefront Error (λ, RMS):
< 0.09

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
6.9

Environmental & Durability Factors

Operating Temperature (°C):
≤200

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Product Details

- Eliminate Spherical Aberration
- Multiple Coating Options Available
- Range of Numerical Apertures

LightPath® Geltech™ Molded Aspheric Lenses are used to eliminate spherical aberration and improve focusing and collimating accuracy in a variety of laser applications. Low NA aspheric lenses are designed to maintain beam

shape, while high NA lenses gather all available light to maintain beam power over long distances. LightPath® Geltech™ Molded Aspheric Lenses are ideal for applications including sighting systems, bar code scanners, laser diode-to-fiber coupling, optical data storage, or biomedical lasers.

Technical Information