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LightPath 355160 | 4mm Dia., 0.55 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-605** **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ C\$105⁰⁰

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Volume Pricing	
Qty 1-10	C\$105.00 each
Qty 11-49	C\$94.50 each
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Product Downloads

General

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

Compatible Window:

Lightpath Lens Code:

355160

Type:

Aspheric Lens

Collimate or Focus Laser Light

Typical Applications:

Physical & Mechanical Properties

4.00 ±0.015 Diameter (mm):

3 Clear Aperture CA (mm):

0.71 Edge Thickness ET (mm):

1.43 ±0.05 Center Thickness CT (mm):

Protective as needed Bevel:

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

Optical Properties

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

0.55 Numerical Aperture NA:

[D-ZLaF52LA](#) Substrate: □

±1 Focal Length Tolerance (%):

780 Aspheric Design Wavelength (nm):

BBAR (350-700nm) Coating:

$R_{avg} \leq 0.5\%$ @ 350 - 700nm Coating Specification:

40-20 Surface Quality:

0.91 f#:

40.79 Abbe Number (v_d):

1.806 Index of Refraction (n_d):

350 - 700 Wavelength Range (nm):

2.37 Working Distance (mm):

Infinite Conjugate Distance:

780.00 Focal Length Specification Wavelength (nm):

< 0.09 Transmitted Wavefront Error (λ , RMS):

Material Properties

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

Environmental & Durability Factors

≤200 Operating Temperature ($^{\circ}\text{C}$):

Regulatory Compliance

[Compliant](#) RoHS 2015:

[View](#) Certificate of Conformance:

[Compliant](#) Reach 247:

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



Technical Information

