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LightPath 355390 | 4.5mm Dia., 0.55 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-616** **6 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ £60.⁰⁰

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Volume Pricing	
Qty 1-10	£60.00 each
Qty 11-49	£54.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

355390 **Lightpath Lens Code:**

Aspheric Lens **Type:**

Collimate or Focus Laser Light **Typical Applications:**

Physical & Mechanical Properties

4.50 ±0.015 **Diameter (mm):**

3.6 **Clear Aperture CA (mm):**

1.13 **Edge Thickness ET (mm):**

1.90 ±0.04 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

Optical Properties

2.75 @ 830nm **Effective Focal Length EFL (mm):**

0.55 **Numerical Aperture NA:**

[D-ZLaF52LA](#) **Substrate:** □

±1 **Focal Length Tolerance (%):**

830 **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):**

2.16 **Working Distance (mm):**

Infinite **Conjugate Distance:**

830.00 **Focal Length Specification Wavelength (nm):**

< 1.30 **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 diode-to-fiber coupling, optical data storage, or biomedical lasers.

Technical Information

