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LightPath 355022 | 5.42mm Dia., 0.47 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock #16-687 CLEARANCE **8 In Stock**

⊖ 1 ⊕ £31⁰⁰

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Product Downloads

General

Compatible Window:
Thickness: 1.20 (t) (mm) Material: BK7

Lightpath Lens Code:
355022

Type:
Aspheric Lens

Typical Applications:
Collimate or Focus Laser Light

Physical & Mechanical Properties

5.42 ±0.015 **Diameter (mm):**

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

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

3.27 ±0.05 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

Optical Properties

4.47 @ 780nm **Effective Focal Length EFL (mm):**

0.47 **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:**

1.06 **f#:**

40.99 **Abbe Number (v_d):**

1.81 **Index of Refraction (n_d):**

350 - 700 **Wavelength Range (nm):**

3.08 **Working Distance (mm):**

Infinite **Conjugate Distance:**

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

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 233:**

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.

LASER OPTICS MADE BY EDMUND OPTICS®

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Technical Information

