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# LightPath 354350 | 4.7mm Dia., 0.43 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-578** **20+ In Stock**

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⊖ 1 ⊕ €75.<sup>00</sup>

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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**

354350 **Lightpath Lens Code:**

Aspheric Lens **Type:**

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

## Physical & Mechanical Properties

4.70 ±0.015 **Diameter (mm):**

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

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

3.65 ±0.04 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

## Optical Properties

4.50 @ 980nm **Effective Focal Length EFL (mm):**

0.43 **Numerical Aperture NA:**

**D-ZK3** **Substrate:** □

±1 **Focal Length Tolerance (%):**

980 **Aspheric Design Wavelength (nm):**

BBAR (350-700nm) **Coating:**

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

40-20 **Surface Quality:**

1.16 **f#:**

60.88 **Abbe Number ( $v_d$ ):**

1.586 **Index of Refraction ( $n_d$ ):**

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

2.2 **Working Distance (mm):**

Infinite **Conjugate Distance:**

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

< 0.07 **Transmitted Wavefront Error ( $\lambda$ , RMS):**

## Material Properties

7.6 **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

