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# LightPath 355151 | 3mm Dia., 0.50 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-582** **20+ In Stock**

[Other Coating Options](#)

⊖ 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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ⓘ Prices shown are exclusive of VAT/local taxes

## Product Downloads

### General

Thickness: 0.25 (t) (mm)  
Material: BK7

Compatible Window:

355151

Lightpath Lens Code:

Aspheric Lens

Type:

Typical Applications:  
Collimate or Focus Laser Light

## Physical & Mechanical Properties

Diameter (mm):

3.00 ±0.015

Clear Aperture CA (mm):

2

Edge Thickness ET (mm):

1.40

Center Thickness CT (mm):

1.89 ±0.03

Bevel:

Protective as needed

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

0.479

## Optical Properties

Effective Focal Length EFL (mm):

2.00 @ 780nm

Numerical Aperture NA:

0.50

Substrate:

[D-ZLaF52LA](#)

Focal Length Tolerance (%):

±1

Aspheric Design Wavelength (nm):

780

Coating:

BBAR (350-700nm)

Coating Specification:

R<sub>avg</sub> ≤0.5% @ 350 - 700nm

Surface Quality:

40-20

f#:

1.00

Abbe Number (v<sub>d</sub>):

40.79

Index of Refraction (n<sub>d</sub>):

1.806

Wavelength Range (nm):

350 - 700

Working Distance (mm):

1.029

Conjugate Distance:

Infinite

Focal Length Specification Wavelength (nm):

780.00

Transmitted Wavefront Error (λ, RMS):

< 0.07

## Material Properties

Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°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.

# LASER OPTICS MADE BY EDMUND OPTICS®

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## Technical Information

