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# LightPath 354850 | 6.33mm Dia., 0.13 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-543** **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ £68.<sup>00</sup>

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Volume Pricing	
Qty 1-10	£68.00 each
Qty 11-49	£61.20 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:

354850

Lightpath Lens Code:

Aspheric Lens

Type:

Typical Applications:  
Collimate or Focus Laser Light

## Physical & Mechanical Properties

Diameter (mm):  
6.33 ±0.015

Clear Aperture CA (mm):  
5.5

Edge Thickness ET (mm):  
2.35

Center Thickness CT (mm):  
2.66 ±0.05

Bevel:  
Protective as needed

Distance from Window to Lens (D) (mm):  
19.157

## Optical Properties

Effective Focal Length EFL (mm):  
22.00 @670nm

Numerical Aperture NA:  
0.13

Substrate:   
[D-ZK3](#)

Focal Length Tolerance (%):  
±1

Aspheric Design Wavelength (nm):  
670

Coating:  
BBAR (350-700nm)

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

Surface Quality:  
40-20

f#:  
3.85

Abbe Number ( $v_d$ ):  
60.88

Index of Refraction ( $n_d$ ):  
1.586

Wavelength Range (nm):  
350 - 700

Working Distance (mm):  
20.41

Conjugate Distance:  
Infinite

Focal Length Specification Wavelength (nm):  
670.00

Transmitted Wavefront Error ( $\lambda$ , RMS):  
< 0.12

## Material Properties

Coefficient of Thermal Expansion CTE ( $10^{-6}/^{\circ}\text{C}$ ):  
7.6

## Environmental & Durability Factors

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

