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# LightPath 354240 | 9.94mm Dia., 0.50 NA, BBAR (1050-1600nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#37-104** **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ €99<sup>00</sup>

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Volume Pricing	
Qty 1-10	€99,00 each
Qty 11-49	€89,00 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:**

354240

**Lightpath Lens Code:**

Aspheric Lens

**Type:**

Typical Applications:  
Collimate or Focus Laser Light

## Physical & Mechanical Properties

Diameter (mm):  
9.94 ±0.015

Clear Aperture CA (mm):  
8

Edge Thickness ET (mm):  
1.44

Center Thickness CT (mm):  
3.43 ±0.05

Bevel:  
Protective as needed

Distance from Window to Lens (D) (mm):  
4.911

## Optical Properties

Effective Focal Length EFL (mm):  
8.00 @ 780nm

Numerical Aperture NA:  
0.50

Substrate:   
[D-ZK3](#)

Focal Length Tolerance (%):  
±1

Aspheric Design Wavelength (nm):  
780

Coating:  
BBAR (1050-1600nm)

Coating Specification:  
R<sub>abs</sub> <1.0% @ 1050 - 1600nm

Surface Quality:  
40-20

f#:  
1.00

Abbe Number (v<sub>d</sub>):  
50.22

Index of Refraction (n<sub>d</sub>):  
1.586

Wavelength Range (nm):  
1050 - 1600

Working Distance (mm):  
5.9

Conjugate Distance:  
Infinite

Focal Length Specification Wavelength (nm):  
780.00

Transmitted Wavefront Error (λ, RMS):  
< 0.08

## Material Properties

Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):  
7.6

## Environmental & Durability Factors

Operating Temperature (°C):  
≤200

## Regulatory Compliance

RoHS 2015:  
[Compliant](#)

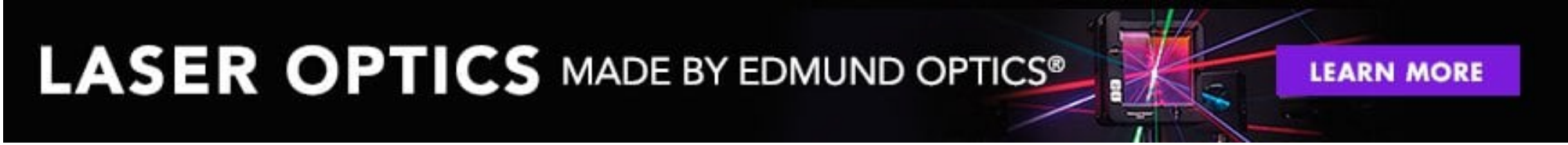
Certificate of Conformance:  
[View](#)

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.



## Technical Information

