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# LightPath 355330 | 6.33mm Dia., 0.77 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-674** **20+ In Stock**

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## General

**Lightpath Lens Code:**
355330

**Type:**
Aspheric Lens

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

## Physical & Mechanical Properties

**Diameter (mm):**
6.33 ±0.015

**Clear Aperture CA (mm):**
5

**Edge Thickness ET (mm):**
1.12

**Center Thickness CT (mm):**
2.71 ±0.02

**Bevel:**
Protective as needed

## Optical Properties

**Effective Focal Length EFL (mm):**
3.10 @ 830nm

**Numerical Aperture NA:**
0.77

**Substrate:**
D-ZLaF52LA

**Focal Length Tolerance (%):**
±1

**Aspheric Design Wavelength (nm):**
830

**Coating:**
BBAR (600-1050nm)

**Coating Specification:**
$R_{abs}$ <1.0% @ 600 - 1050nm

**Surface Quality:**
40-20

**f/#:**
0.65

**Abbe Number ($v_d$):**
40.79

**Index of Refraction ($n_d$):**
1.806

**Wavelength Range (nm):**
600 - 1050

**Working Distance (mm):**
1.59

**Conjugate Distance:**
Infinite

**Focal Length Specification Wavelength (nm):**
830.00

**Transmitted Wavefront Error (λ, RMS):**
< 0.50

## Material Properties

**Coefficient of Thermal Expansion CTE ($10^{-6}$/°C):**
6.9

## Environmental & Durability Factors

**Operating Temperature (°C):**
≤200

## Regulatory Compliance

**RoHS 2015:**
Compliant

**Certificate of Conformance:**
View

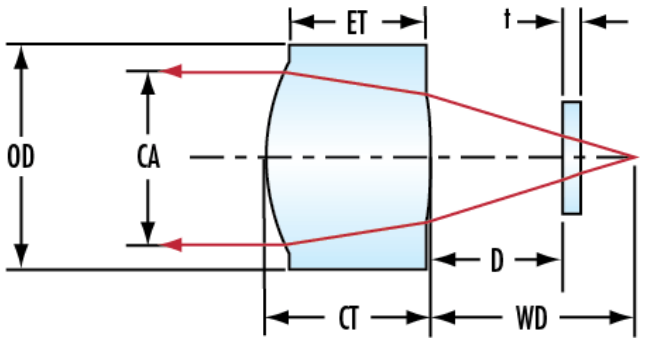
**Reach 247:**
Compliant

# 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.

## Technical Information

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