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TECHSPEC® 25mm Dia., 0.50 Numerical Aperture, Uncoated, Precision Molded Aspheric Lens



TECHSPEC® Precision Molded Aspheric Lenses

Stock **#17-082** **20+ In Stock**

⊖ 1 ⊕ **\$365⁰⁰**

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Volume Pricing	
Qty 1+	\$365.40 each
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General

Aspheric Lens **Type:**

Polished equivalent is [#47-730](#) **Note:**

Physical & Mechanical Properties

25.00 +0.0/-0.1 **Diameter (mm):**

≤5 **Centering (arcmin):**

22.5	Clear Aperture CA (mm):
1.74	Edge Thickness ET (mm):
7.50 ±0.1	Center Thickness CT (mm):
Protective as needed	Bevel:
Plano	Shape of Back Surface:
22 (typical)	Surface Roughness (□):

Optical Properties

25.00 @ 587.6nm	Effective Focal Length EFL (mm):
0.50	Numerical Aperture NA:
20.28	Back Focal Length BFL (mm):
L-BAL35	Substrate: □
1.2λ	Asphere Figure Error, RMS @ 632.8nm:
Uncoated	Coating:
60-40	Surface Quality:
1.00	f/#:
61.15	Abbe Number (v_d):
1.589	Index of Refraction (n_d):
330 - 2400	Wavelength Range (nm):
Infinite	Conjugate Distance:
587.6	Focal Length Specification Wavelength (nm):
40.00	Power (diopters):

Material Properties

6.6	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
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Regulatory Compliance

View	Certificate of Conformance:
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Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

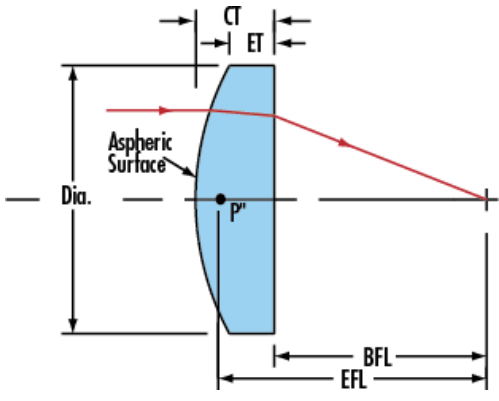
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Precision Glass Molded Lenses
- Ideal for High Volume Production Requirements
- Available in Convenient Packs of 10 for Volume Integration

TECHSPEC® Precision Molded Aspheric Lenses are manufactured through a precision glass molding process to meet the same specifications as our polished [TECHSPEC Precision Aspheric Lenses](#). These lenses are designed to have optimal performance when molded by accounting for the change in index of refraction that occurs during the molding process. TECHSPEC Precision Molded Aspheric Lenses eliminate spherical aberrations and can be used to replace multiple spherical elements in an optical system to simplify design, lower system weight, and decrease costs. Due to the differences between the glass molding and polishing processes, these lenses have an increased surface roughness over their polished counterparts and may produce more scatter. However, the scalable precision glass molding process is ideal for high volume OEM integration.

Technical Information



Compatible Mounts
