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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 + **A$417.60**

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Volume Pricing	
Qty 1+	**A$417.60** each
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General

Type:

Aspheric Lens

Note:

Polished equivalent is **#47-730**

Physical & Mechanical Properties

Diameter (mm):

25.00 +0.0/-0.1

Centering (arcmin):

≤5

Clear Aperture CA (mm):
22.5

Edge Thickness ET (mm):
1.74

Center Thickness CT (mm):
7.50 ±0.1

Bevel:
Protective as needed

Shape of Back Surface:
Plano

Surface Roughness (□):
22 (typical)

Optical Properties

Effective Focal Length EFL (mm):
25.00 @ 587.6nm

Numerical Aperture NA:
0.50

Back Focal Length BFL (mm):
20.28

Substrate: □
L-BAL35

Asphere Figure Error, RMS @ 632.8nm:
1.2λ

Coating:
Uncoated

Surface Quality:
60-40

f/#:
1.00

Abbe Number (v_d):
61.15

Index of Refraction (n_d):
1.589

Wavelength Range (nm):
330 - 2400

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
587.6

Power (diopters):
40.00

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
6.6

Regulatory Compliance

Certificate of Conformance:
View

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

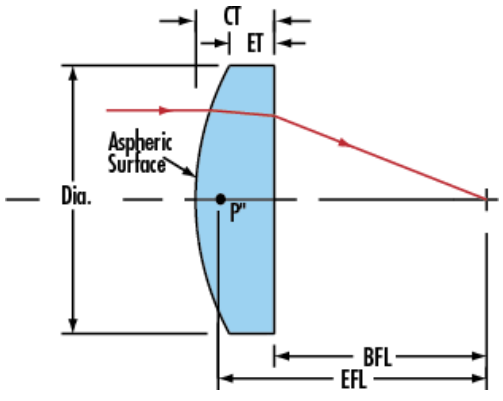
Learn more about our custom manufacturing capabilities or submit an inquiry here.

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

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