

TECHSPEC[®] 12mm Dia. x 15mm FL, Uncoated, Hybrid Asphere



TECHSPEC[®] Plastic Hybrid Aspheric Lenses

Stock **#21-224** 20+ In Stock

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1

+

C\$134⁴⁰

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Volume Pricing	
Qty 1-24	C\$134.40 each
Qty 25-99	C\$102.20 each
Qty 100-249	C\$78.40 each
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Product Downloads

General	
Aspheric Lens	Type:
Physical & Mechanical Properties	
12.00 ±0.15	Diameter (mm):
10.00	Clear Aperture CA (mm):

2.29	Edge Thickness ET (mm):
3.70 ±0.20	Center Thickness CT (mm):
Protective as needed	Bevel:
Convex	Shape of Back Surface:

Optical Properties

15.00 @ 587.6nm	Effective Focal Length EFL (mm):
0.40	Numerical Aperture NA:
12.95	Back Focal Length BFL (mm):
Zeonex K22R	Substrate: □
587.6	Aspheric Design Wavelength (nm):
Uncoated	Coating:
80-50	Surface Quality:
1.25	f/#:
48.3	Radius R ₂ (mm):
475 - 675	Wavelength Range (nm):
Infinite	Conjugate Distance:

Environmental & Durability Factors

-30 to +70	Operating Temperature (°C):
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Regulatory Compliance

View	Certificate of Conformance:
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Product Details

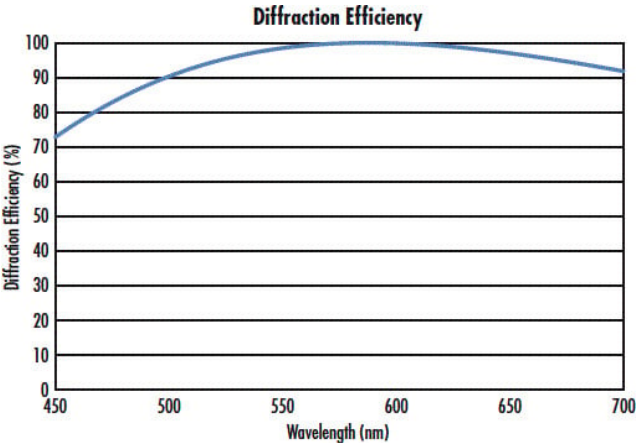
- Color-Corrected Plastic Aspheres
- Diffractive Surface Minimizes Chromatic Aberration
- Low-Cost, Molded Design

TECHSPEC® Plastic Hybrid Aspheric Lenses are molded aspheric lenses with diffraction-limited designs that eliminate chromatic aberrations caused by broadband light sources. These hybrid aspheric lenses are ideal for imaging or ophthalmic applications, or for use with tunable lasers or broadband or multispectral illumination sources. The [aspheric lens](#) eliminates spherical aberration, while the diffractive surface features a negative optical dispersion to yield excellent color correction.

TECHSPEC Plastic Hybrid Aspheric Lenses are similar in performance, but offer several advantages to our [TECHSPEC Aspherized Achromatic Lenses](#). Hybrid aspheric lenses feature all-plastic, monolithic designs that are much lighter than comparable aspherized achromatic lenses. These optical lenses are also available in higher numerical apertures. However, plastic hybrid aspheric lenses are limited by the inherent diffraction efficiency of the aspheric surface, yielding lower overall transmission than comparable aspherized achromatic lenses.

These lenses won the 2011 Prism Award for Optics and Optical Components.

Technical Information



Monochromatic Spot Size Comparison for
25mm Diameter f/1.2 Optical Components

