

TECHSPEC[®] 50mm Dia. 320 - 450nm Broadband λ /10 ZERODUR[®] Mirror



Stock **#24-019** 1 In Stock

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1

+

₹28,337

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Volume Pricing	
Qty 1-5	₹28,337 each
Qty 6-25	₹22,654 each
Qty 26-49	₹21,253 each
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General

Flat MirrorType:

Physical & Mechanical Properties

50.00 +0.00/-0.20Diameter (mm):

Commercial Polish	Back Surface:
Protective as needed	Bevel:
90	Clear Aperture (%):
Ground	Edges:
30	Parallelism (arcsec):
5.00 ±0.20	Thickness (mm):

Optical Properties	
λ10	Surface Flatness (P-V):
ZERODUR®	Substrate: □
20-10	Surface Quality:
Coating Specification: Ravg >98% @ 340 - 488nm (0°, All Polarizations) Ravg >98% @ 320 - 450nm (45°, All Polarizations) Ravg >99% @ 320 - 450nm (45°, S-Polarization)	
Dielectric Mirror (320-450nm)	Coating:
Dielectric	Coating Type:
0-45	Angle of Incidence (°):
320 - 450	Wavelength Range (nm):
Damage Threshold, By Design: □ 0.5 J/cm² @ 355nm, 20ns, 20Hz	

Material Properties	
0.1	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

Regulatory Compliance	
View	Certificate of Conformance:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

Product Details

• ZERODUR® Substrates Provide Near Zero Thermal Expansion

• Enhanced Reflectivity and LDT over Metallic Coatings

• UV, Visible, and NIR Reflective Coatings Designed for 0-45° AOI

• [Metallic Coated ZERODUR®](#) Mirrors Also Available

TECHSPEC® Broadband Dielectric ZERODUR® λ10 Mirrors combine high reflectivity over broad wavelength ranges with a near zero coefficient of thermal expansion (CTE) making them ideal for laser applications where temperature fluctuations could impact optical performance. The ZERODUR® substrates have a coefficient of thermal expansion (CTE) of ±0.10 x 10⁻⁶/°C, which is an order of magnitude lower than most glass types, including fused silica. Featuring coatings designed for 0-45° AOI and >99% average reflectivity, these dielectric coated mirrors provide higher reflectivity than metal coated mirrors, increasing system throughput by minimizing energy loss. TECHSPEC® Broadband Dielectric ZERODUR® λ10 Mirrors are ideal for beam steering and beam folding applications from the UV to NIR, including [fluorescence microscopy](#), flow cytometry, and [laser communications](#).

Technical Information



Custom

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](#).

Compatible Mounts