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TECHSPEC[®] 50mm Dia. 750 - 1100nm Broadband $\lambda/10$ ZERODUR[®] Mirror



Stock **#24-043** 4 In Stock

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1

+

A\$601⁶⁰

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Volume Pricing	
Qty 1-5	A\$601.60 each
Qty 6-25	A\$481.60 each
Qty 26-49	A\$452.80 each
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Product Downloads

General

Flat Mirror

Type:

Physical & Mechanical Properties

50.00 +0.00/-0.20

Diameter (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

λ 10	Surface Flatness (P-V):
	Substrate: 
20-10	Surface Quality:
R_{avg} >98% @ 750 - 1100nm (0 - 45°) R_{avg} >99% @ 750 - 1100nm (0°)	Coating Specification:
Dielectric Mirror (750-1100nm)	Coating:
Dielectric	Coating Type:
0-45	Angle of Incidence (°):
750 - 1100	Wavelength Range (nm):
1 J/cm ² @ 1064nm, 20ns, 20Hz	Damage Threshold, By Design: 

Material Properties

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

View	Certificate of Conformance:
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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® λ 10 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 $\pm 0.10 \times 10^{-6}/^{\circ}\text{C}$, 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® λ 10 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