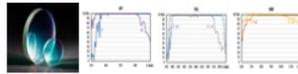


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**TECHSPEC® 50mm Dia. 750 - 1100nm Broadband  $\lambda/10$  ZERODUR® Mirror**



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

⊖ 1 ⊕ ₹26,313

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹26,313 each
Qty 6-25	₹21,020 each
Qty 26-49	₹19,774 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Flat Mirror **Type:**

**Physical & Mechanical Properties**

50.00 +0.00/-0.20 **Diameter (mm):**

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

## Optical Properties

M10	<b>Surface Flatness (P-V):</b>
ZERODUR®	<b>Substrate:</b> <input type="checkbox"/>
20-10	<b>Surface Quality:</b>
R <sub>avg</sub> >98% @ 750 - 1100nm (0 - 45°) R <sub>avg</sub> >99% @ 750 - 1100nm (0°)	<b>Coating Specification:</b>
Dielectric Mirror (750-1100nm)	<b>Coating:</b>
Dielectric	<b>Coating Type:</b>
0-45	<b>Angle of Incidence (°):</b>
750 - 1100	<b>Wavelength Range (nm):</b>
1 J/cm <sup>2</sup> @ 1064nm, 20ns, 20Hz	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>

## Material Properties

0.1	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
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## Regulatory Compliance

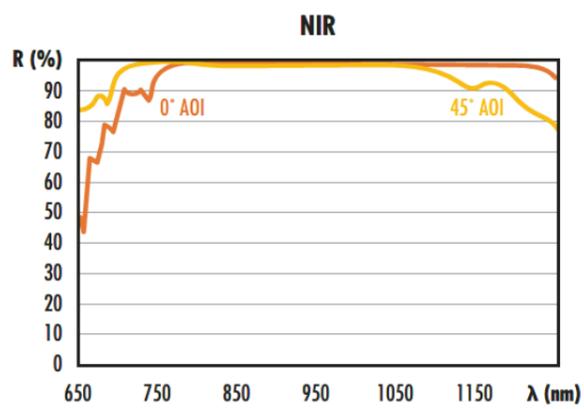
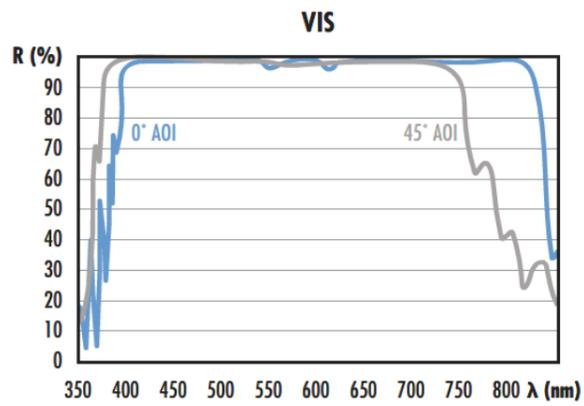
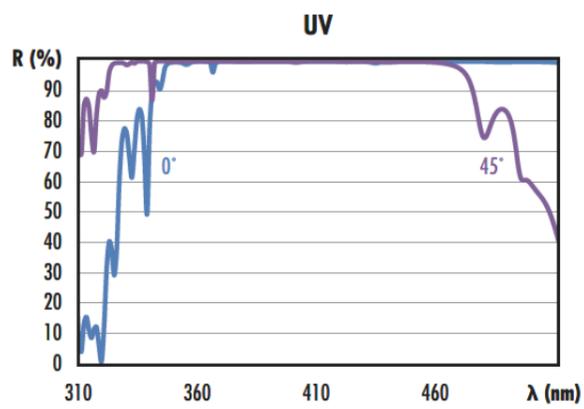
<a href="#">View</a>	<b>Certificate of Conformance:</b>
United States	<b>Country of Origin:</b>
Edmund Optics India Private Limited	<b>Imported By:</b>

## 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® M10 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® M10 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

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