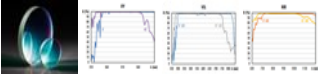


TECHSPEC<sup>®</sup> 50mm Dia. 320 - 450nm Broadband  $\lambda$ /10 ZERODUR<sup>®</sup> Mirror



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

-

1

+

A\$648<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$648.00 each                |
| Qty 6-25       | A\$518.40 each                |
| Qty 26-49      | A\$486.40 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):

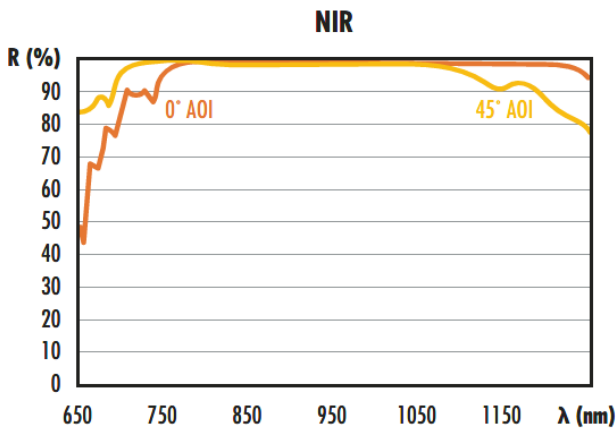
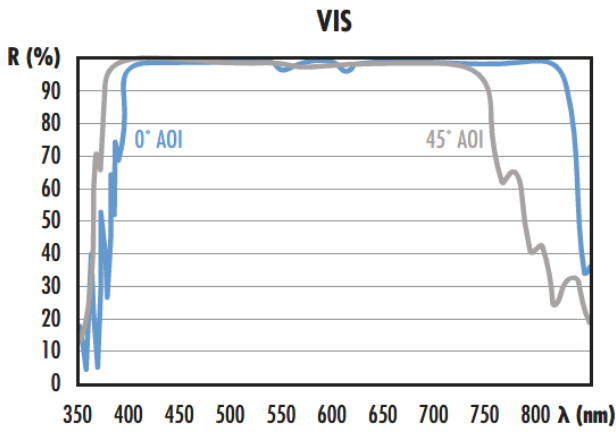
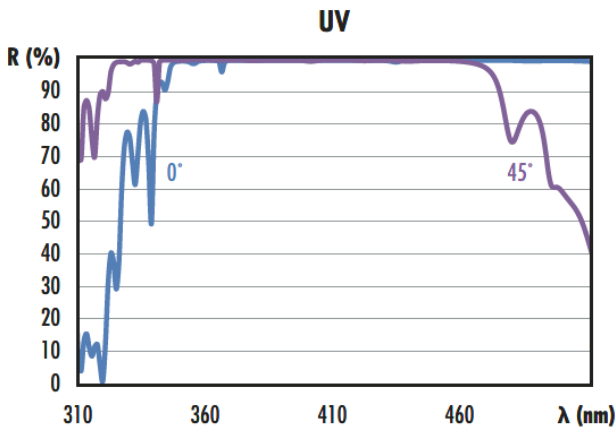
|                                                                                                                                                      |                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Commercial Polish                                                                                                                                    | 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:                                             |
| Ravg >98% @ 340 - 488nm (0°, All Polarizations)<br>Ravg >98% @ 320 - 450nm (45°, All Polarizations)<br>Ravg >99% @ 320 - 450nm (45°, S-Polarization) | Coating Specification:                                       |
| Dielectric Mirror (320-450nm)                                                                                                                        | Coating:                                                     |
| Dielectric                                                                                                                                           | Coating Type:                                                |
| 0-45                                                                                                                                                 | Angle of Incidence (°):                                      |
| 320 - 450                                                                                                                                            | Wavelength Range (nm):                                       |
| 0.5 J/cm² @ 355nm, 20ns, 20Hz                                                                                                                        | Damage Threshold, By Design: □                               |
| Material Properties                                                                                                                                  |                                                              |
| 0.1                                                                                                                                                  | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |
| Regulatory Compliance                                                                                                                                |                                                              |
| View                                                                                                                                                 | Certificate of Conformance:                                  |

## 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<sup>-6</sup>/°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