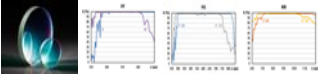


TECHSPEC<sup>®</sup> 40mm Dia. 750 - 1100nm Broadband  $\lambda/10$  ZERODUR<sup>®</sup> Mirror



Stock **#24-041** 2 In Stock

-

1

+

€289<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €289,00 each                  |
| Qty 6-25       | €232,00 each                  |
| Qty 26-49      | €217,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

| General                          |                |
|----------------------------------|----------------|
| Flat Mirror                      | Type:          |
| Physical & Mechanical Properties |                |
|                                  | Diameter (mm): |

|                      |                       |
|----------------------|-----------------------|
| 40.00 +0.00/-0.20    |                       |
| Commercial Polish    | Back Surface:         |
| Protective as needed | Bevel:                |
| 90                   | Clear Aperture (%):   |
| Ground               | Edges:                |
| 30                   | Parallelism (arcsec): |
| 5.00 ±0.20           | Thickness (mm):       |

| Optical Properties                                                  |                                                       |
|---------------------------------------------------------------------|-------------------------------------------------------|
| N10                                                                 | Surface Flatness (P-V):                               |
| ZERODUR®                                                            | Substrate: <input type="checkbox"/>                   |
| 20-10                                                               | Surface Quality:                                      |
| Ravg >98% @ 750 - 1100nm (0 - 45°)<br>Ravg >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/cm² @ 1064nm, 20ns, 20Hz                                        | Damage Threshold, By Design: <input type="checkbox"/> |

| Material Properties |                                                              |
|---------------------|--------------------------------------------------------------|
| 0.1                 | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |

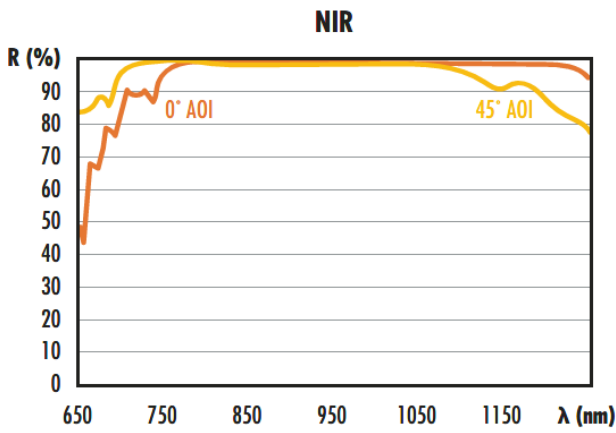
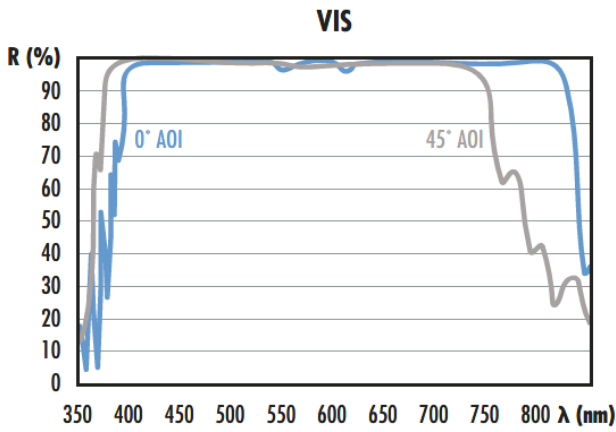
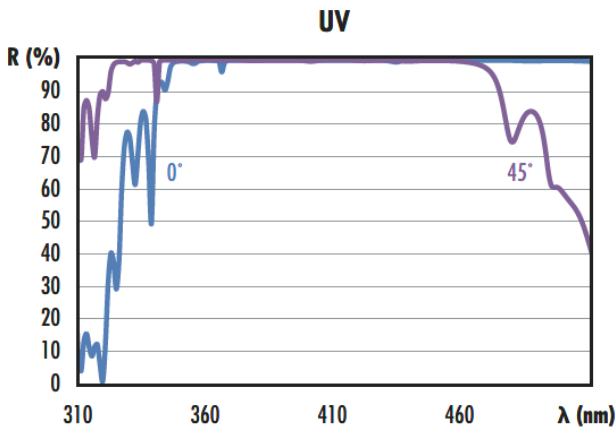
| Regulatory Compliance |                             |
|-----------------------|-----------------------------|
| <a href="#">View</a>  | Certificate of Conformance: |

## 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® N10 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® N10 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