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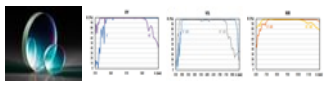
TECHSPEC® 40mm Dia. 400 - 750nm Broadband λ/10 ZERODUR® Mirror



Stock **#24-029** **10 In Stock**

- 1 +

£231.20

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Volume Pricing	
Qty 1-5	**£231.20** each
Qty 6-25	**£185.60** each
Qty 26-49	**£173.60** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Diameter (mm):

40.00 +0.00/-0.20

Thickness (mm):

5.00 ±0.20

Back Surface:

Commercial Polish

Bevel:

Protective as needed

Clear Aperture (%):

90

Edges:

Ground

Parallelism (arcsec):

30

Optical Properties

Coating Type:

Dielectric

Coating:

Dielectric Mirror (400-750nm)

Surface Flatness (P-V):

λ/10

Wavelength Range (nm):

400 - 750

Substrate:

ZERODUR®

Angle of Incidence (°):

0-45

Coating Specification:

R_{avg} >98% @ 400 - 750nm (0 - 45°)
R_{avg} >99% @ 400 - 750nm (0°)

Surface Quality:

20-10

Damage Threshold, By Design:

0.5 J/cm^2 @ 532nm, 20ns, 20Hz

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):

0.1

Regulatory Compliance

Certificate of Conformance:

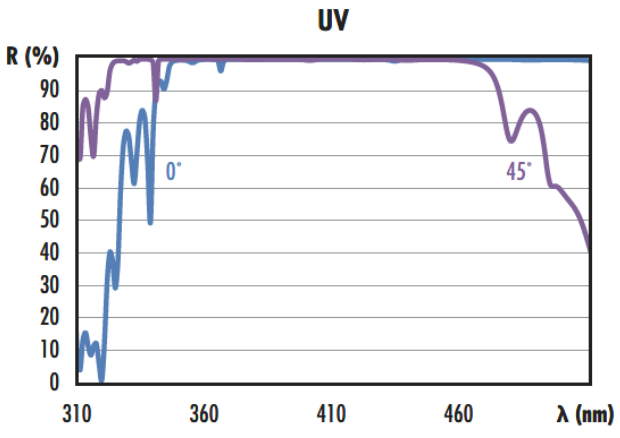
View

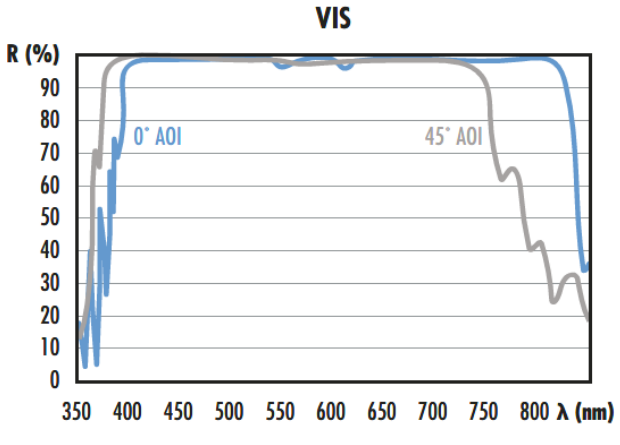
Product Details

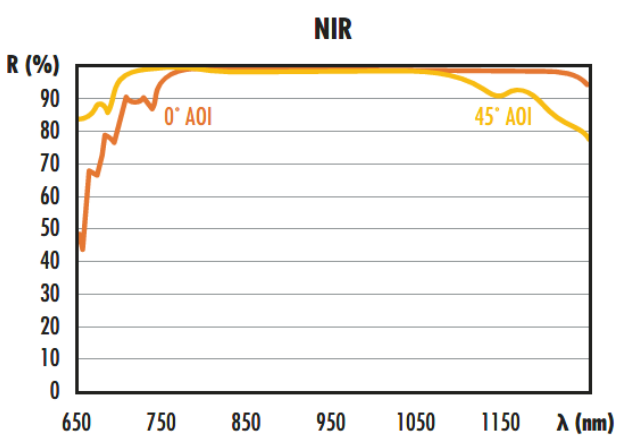
- ZERODUR® Substrates Provide Near Zero Thermal Expansion
- Enhanced Reflectivity and LDT over Metallic Coatings
- UV, Visible, and NIR Reflective Coatings Designed for 0-45° AOI
- **Metallic Coated ZERODUR®** Mirrors Also Available

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 ±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® 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

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