

TECHSPEC[®] 50 x 50mm, 320 - 450nm Broadband $\lambda/10$ Mirror



Stock **#29-909** 7 In Stock

-

1

+

C\$397⁶⁰

ADD TO CART

Volume Pricing	
Qty 1-5	C\$397.60 each
Qty 6-25	C\$317.80 each
Qty 26-49	C\$298.20 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

General

Flat Mirror

Type:

Physical & Mechanical Properties	
Commercial Polish	Back Surface:
50.00 x 50.00 +0.00/-0.20	Dimensions (mm):
90	Clear Aperture (%):
Ground, 0.5mm max bevel	Edges:
<0.5	Parallelism (arcmin):
30	Parallelism (arcsec):
5.00 ±0.20	Thickness (mm):
Optical Properties	
Dielectric Mirror (320-450nm)	Coating:
R _{avg} >98% @ 340 - 488nm (0°, All Polarizations) R _{avg} >98% @ 320 - 450nm (45°, All Polarizations) R _{avg} >99% @ 320 - 450nm (45°, S-Polarization)	Coating Specification:
320 - 450	Wavelength Range (nm):
N10	Surface Flatness (P-V):
Fused Silica (Corning 7980)	Substrate: ☐
20-10	Surface Quality:
Dielectric	Coating Type:
0-45	Angle of Incidence (°):
0.5 J/cm ² @ 355nm, 20ns, 20Hz	Damage Threshold, By Design: ☐
Regulatory Compliance	
View	Certificate of Conformance:

PRODUCT DETAILS

- Enhanced Reflectivity and LIDT over Metallic Coatings
- Average Reflectivity >99% Over Broad UV, Visible, and NIR Wavelengths
- Designed for all Polarization States from 0 – 45° AOI

TECHSPEC® Broadband Dielectric N10 Mirrors are ideal for beam steering or reflection applications utilizing multiple laser sources. These mirrors feature greater than 99% reflection, significantly better than metal-coated mirrors, and increase system performance by minimizing energy loss. The highly durable fused silica substrate offers a low thermal expansion coefficient and a high abrasion resistance. TECHSPEC® Broadband Dielectric N10 Mirrors are designed for applications from the UV to the near-infrared spectra.

TECHNICAL INFORMATION

UV



VIS



NIR



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](#).