

TECHSPEC® 50mm Dia. 400 - 750nm Broadband $\lambda/4$ Mirror



Broadband Dielectric $\lambda/4$ Mirrors

Stock **#70-676** **2 In Stock**

⊖ 1 ⊕ £152⁰⁰

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Volume Pricing	
Qty 1-5	£152.80 each
Qty 6-25	£121.60 each
Qty 26-49	£114.40 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Flat Mirror **Type:**

Physical & Mechanical Properties

50.00 +0.00/-0.25 **Diameter (mm):**

Thickness (mm):

4.00 ±0.25

Commercial Polish **Back Surface:**

90 **Clear Aperture (%):**

45.00 **Clear Aperture CA (mm):**

Ground **Edges:**

5 **Parallelism (arcmin):**

Optical Properties

Dielectric **Coating Type:**

Dielectric Mirror (400-750nm) **Coating:**

$\lambda/4$ (typical) **Surface Flatness (P-V):**

400 - 750 **Wavelength Range (nm):**

BOROFLOAT® **Substrate:**

0-45 **Angle of Incidence (°):**

Coating Specification:
R_{avg} >98% @ 400 - 750nm (0-45°, All Polarizations)
R_{avg} >99% @ 400 - 750nm (0-45°, S-Polarizations)

60-40 **Surface Quality:**

Damage Threshold, By Design:
0.5 J/cm² @ 532nm, 20ns, 20Hz

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- Enhanced Reflectivity and LDT over Metallic Coatings
- Average Reflectivity >99% from 400 – 750nm
- Designed for all Polarization States at 0 – 45° AOI
- $\lambda/10$ Versions Available

TECHSPEC® Broadband Dielectric $\lambda/4$ Mirrors feature a high laser damage threshold of 0.5 J/cm² @ 532nm, 20ns pulse, at 20Hz as well as a >99% reflection from 400 – 750nm across all polarization states. Constructed from highly durable BOROFLOAT® substrates, these mirrors feature outstanding thermal and high chemical durability making them ideal for high temperature and harsh environment applications. TECHSPEC® Broadband Dielectric $\lambda/4$ Mirrors are available in a variety of diameters from 12.5 - 50mm. A low-cost alternative to our precision polished [TECHSPEC Broadband Dielectric \$\lambda/10\$ Mirrors](#), these mirrors are ideal for spectroscopy, microscopy, and general laboratory use such as beam steering or reflection applications utilizing multiple laser sources.

Note: Surface Flatness is measured pre-coating and deviations may appear after the coating has been applied. For applications where surface flatness is critical it is recommended to use the [TECHSPEC® Broadband Dielectric \$\lambda/10\$ Mirrors](#).