

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



Broadband Dielectric  $\lambda$ /4 Mirrors

Stock #70-676 2 In Stock

-

1

+

₹13,390

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹13,390 each                  |
| Qty 6-25       | ₹10,665 each                  |
| Qty 26-49      | ₹10,019 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                 |
|----------------------------------|-----------------|
| Flat Mirror                      | Type:           |
| Physical & Mechanical Properties |                 |
| 50.00 +0.00/-0.25                | Diameter (mm):  |
| 4.00 ±0.25                       | Thickness (mm): |

|                   |                         |
|-------------------|-------------------------|
| 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:                                              |
|                                                                                                                              |                                                       |
| λ/4 (typical)                                                                                                                | Surface Flatness (P-V):                               |
|                                                                                                                              |                                                       |
| 400 - 750                                                                                                                    | Wavelength Range (nm):                                |
|                                                                                                                              |                                                       |
| BOROFLOAT®                                                                                                                   | Substrate: <input type="checkbox"/>                   |
|                                                                                                                              |                                                       |
| 0-45                                                                                                                         | Angle of Incidence (°):                               |
|                                                                                                                              |                                                       |
| R <sub>avg</sub> >98% @400 - 750nm (0-45°, All Polarizations)<br>R <sub>avg</sub> >99% @400 - 750nm (0-45°, S-Polarizations) | Coating Specification:                                |
|                                                                                                                              |                                                       |
| 60-40                                                                                                                        | Surface Quality:                                      |
|                                                                                                                              |                                                       |
| 0.5 J/cm <sup>2</sup> @ 532nm, 20ns, 20Hz                                                                                    | Damage Threshold, By Design: <input type="checkbox"/> |
|                                                                                                                              |                                                       |

Regulatory Compliance

|                                     |                             |
|-------------------------------------|-----------------------------|
| View                                | Certificate of Conformance: |
|                                     |                             |
| United States                       | Country of Origin:          |
|                                     |                             |
| Edmund Optics India Private Limited | Imported By:                |
|                                     |                             |

## Product Details

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

TECHSPEC® Broadband Dielectric λ/4 Mirrors feature a high laser damage threshold of 0.5 J/cm<sup>2</sup> @ 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 λ/4 Mirrors are available in a variety of diameters from 12.5 - 50mm. A low-cost alternative to our precision polished [TECHSPEC Broadband Dielectric λ/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 it is recommended to use the [TECHSPEC® Broadband Dielectric λ/10 Mirrors](#).