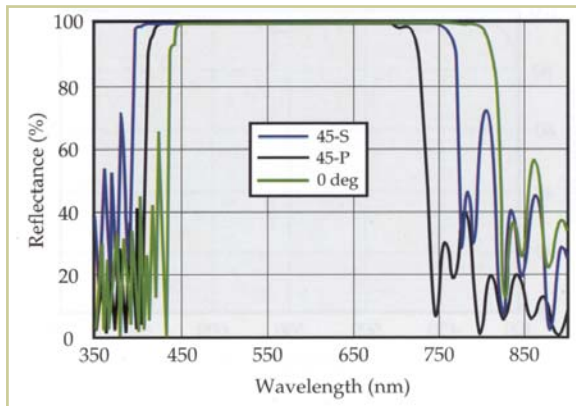


# Broadband Dielectric Mirrors



These dielectric mirrors are excellent high reflectors for broadband use. They operate over a wide spectral range and provide more than 99% reflectance for 45° angle of incidence.



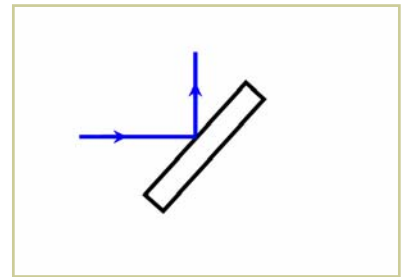
Several distinct wavebands are available:

- UV 245 – 330 nm centred at 280 nm
  - UV 329 – 420 nm centred at 430 nm
  - Visible 450 – 700 nm centred on 625nm
  - Visible 485 – 695 nm centred at 575 nm
  - Near IR 650 – 1000 nm centred at 800 nm
  - Near IR 900 – 1300 nm centred at 1100 nm
  - Near IR 1000 – 1400 nm centred on 1200nm
  - Telecom 1100 – 1600 nm centred at 1350 nm
- Both substrate and coating have an equally important effect on the performance of these mirrors. Substrate material is usually BK7 optical glass.

Polish, stability and scatter are controlled as well as the precise reflectance characteristic of the multilayer dielectric coating.

Broadband mirrors can be produced on flat or

curved substrates as required. Unless otherwise requested we will supply them on  $\lambda/8$  polished



flats with a surface quality of 20/10 or better.

We can supply broadband mirrors in diameters of 10.0, 20.0, 25.4, 38.1 and 50.8 mm.

Custom sizes are available on request.

Typical Specifications	
Substrate Material:	BK7
Surface flatness:	$\lambda/8$ @ 633 nm
Surface quality:	20/10
Parallelism:	< 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	$\pm$ 0.25 mm
Reflectance:	$R_{unp} > 99\%$
Clear aperture:	> 85% of diameter

**To request a quote or to order, please specify:**

Quantity — Substrate Material — Diameter — Waveband

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For a quotation — please phone, fax or email us with details of your requirements.