



# Color Separating Mirrors

## High Performance Dichroic Color Mirrors

Dichroic color separating mirrors are dielectric interference mirrors which reflect certain regions of the visible spectrum and transmit others with a high degree of efficiency. Dichroic mirrors are designed for incidence angle of 45° and virtually absorption free, highly reflecting and with optimum color saturation. Filters are mechanically and chemically resistant without fading and aging.



### Benefits

- Sharp spectral separation between reflection and transmission and with high reflection and transmission values
- Very high color purity
- Ultimate color saturation
- High brightness
- Accurate and reproducible colors
- High temperature resistance
- Filter characteristics independent of glass thickness
- Robust, easy to clean

### Applications

- Optical sensors
- Readers, Barcode scanners
- Color printers, color enlargers
- Optical measuring instruments, Spectroscopy
- High End luminaires
- Entertainment lighting
- Color TV cameras
- Fotofinishing
- Signalisation

### Technical Data

#### Colors

3 colors (customized colors on request)

#### Angles of incidence

45°

#### Substrate material

Heat resistant borosilicate glass

#### Temperature stability

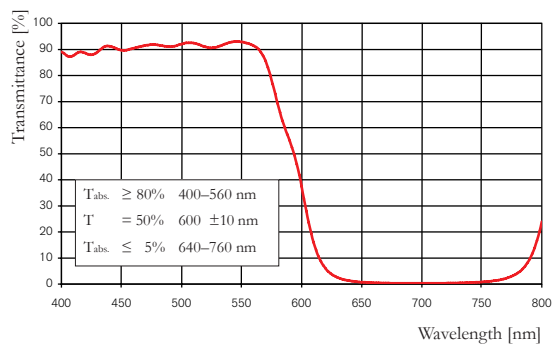
up to 300 °C

#### Standard dimension

160 · 110 · 1.1 mm

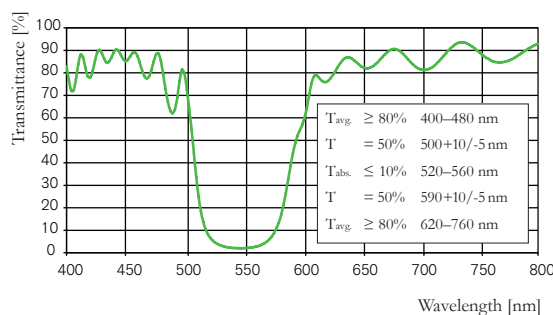
### DC-RED STD

AOI = 45°



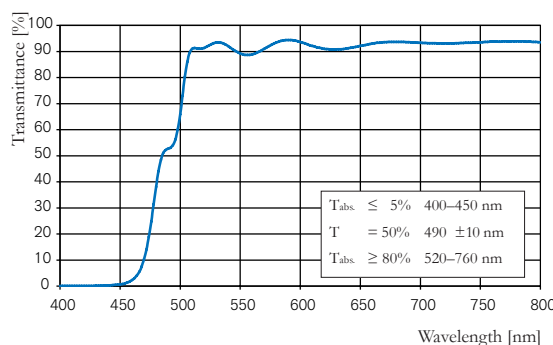
### DC-GREEN STD

AOI = 45°



### DC-BLUE STD

AOI = 45°



Optics Balzers AG  
Neugrüt 35  
LI-9496 Balzers

Liechtenstein  
T +423 388 9200  
F +423 388 9390  
info.mbo@materion.com  
www.materionbalzersoptics.com

MBO 022 PE (2110-1)