

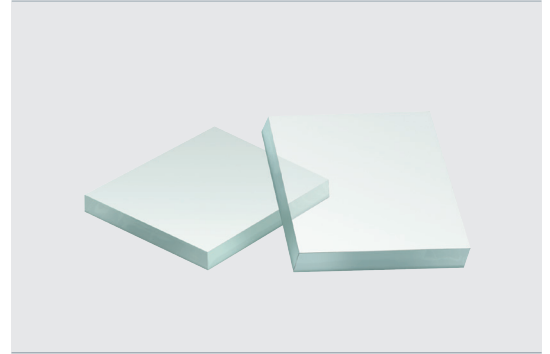
Transflex™ – Neutral Beamsplitter

A Beam will be Highly Uniformed Splitted into a Reflected and a Transmitted Component

The splitting occurs uniformly on the entire mirror surface. Therefore the beam splitter can be installed in any location of a light path under an angle of 45° without interfering the optical imaging.

The Neutral Beamsplitters are composed of absorption free dielectric coating.

All Neutral Beamsplitters are available with a broadband antireflection coating on the rear side, on request.



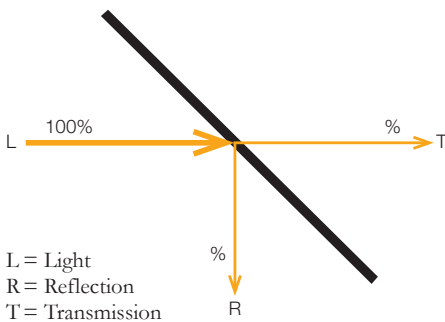
Benefits

- Absorption-free
- Excellent environmental resistance
- Highly scratch-proof
- Neutral over the visible wavelength range

Applications

- Projection equipment
- Light barriers
- Optical sensors

Transflex™ working principle



Technical Data

The Neutral Beamsplitters are identified by their maximum spectral reflectivity at 550 nm ± 5%.

Bandwidth:

450 nm–650 nm for glass

Other wavelengths are available on request.

Standard glass

Corning Eagle XG

Dimension

160 · 110 + 0, –0.5mm · 1.1 ± 0.1 mm

Customized dimensions are also available.

| Reflection (R) in % | Transmission (T) in % |
|---------------------|-----------------------|
| 10 | 90 |
| 15 | 85 |
| 20 | 80 |
| 25 | 75 |
| 33 | 67 |
| 40 | 60 |
| 45 | 55 |
| 50 | 50 |
| 55 | 45 |
| 66 | 34 |
| 75 | 25 |

Environmental test according to MIL-C-675A

| | |
|--------------|------------------------------------|
| para. 4.6.8 | salt solution, 24 h in 4.5% NaCl |
| para. 4.6.9 | humidity, 24 h 49 °C at >95% r. H. |
| para. 4.6.10 | salt foc, 24 h in 4.5% NaCl |
| para. 4.6.11 | hardness, cheesecloth 50 strokes |

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Subject to technical change without notice