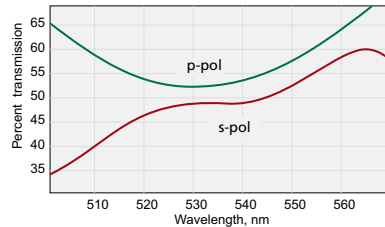


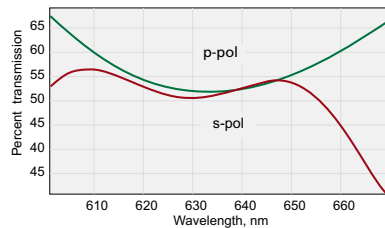
NON-POLARIZING CUBE BEAMSPLITTERS

- Two right angle prisms cemented together with a partially reflecting surface on the internal (protected) face

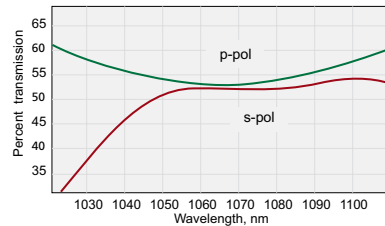
All dielectric coatings of non-polarizing laser beamsplitters are optimised to be insensitive to polarization at designed wavelengths. The coatings hold both the s- and p-polarization components to the same ratio of reflection-to-transmission over a specific laser wavelength region.



Typical transmission curve @ 532 nm

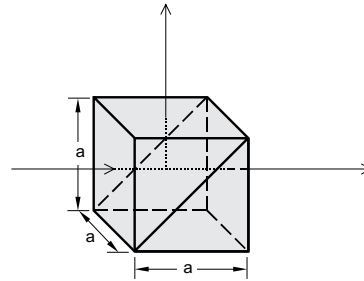


Typical transmission curve @ 633 nm



Typical transmission curve @ 1064 nm

The four outer faces are all anti-reflection coated.



SPECIFICATIONS

Material	BK7
Surface quality	40-20 scratch & dig (MIL-PRF-13830B)
Surface flatness	$\lambda/4$ @ 633 nm
Clear aperture	80% of the face size
Beam deviation	3 arcmin
Dimension tolerance	± 0.5 mm
Splitting ratio	$R/T = 50/50 \pm 5\%$, $ R_s - R_p \leq 5\%$ and $ T_p - T_s \leq 5\%$

Catalogue number	Wavelength, nm	Cube side a, mm	Price, EUR
350-0101	532	10	155
350-0151	532	15	185
350-0201	532	20	205
350-0251	532	25	235
350-0102	633	10	155
350-0152	633	15	185
350-0202	633	20	205
350-0252	633	25	235
350-0106	1064	10	155
350-0156	1064	15	185
350-0206	1064	20	205
350-0256	1064	25	235

Please contact us if you need larger sizes or optimisation at other wavelengths.



Most of the Non-Polarizing Cube Beamsplitters are available for fast off-the-shelf delivery. Check the availability at www.eksmaoptics.com



HOUSING ACCESSORIES

Prism Holders
840-0160, 840-0170-04
See page 8.85

