

Beamsplitters For Plastic Optics

Coatings #3535 & #5050



General Description

ECI offers several multilayer and metal beamsplitter coatings designed specifically for plastic substrates. These vacuum-deposited thin films offer precision optical grade performance on acrylic, polycarbonate and other low temperature substrates. These films are used in applications where an incident light source must be split into two separate beams.

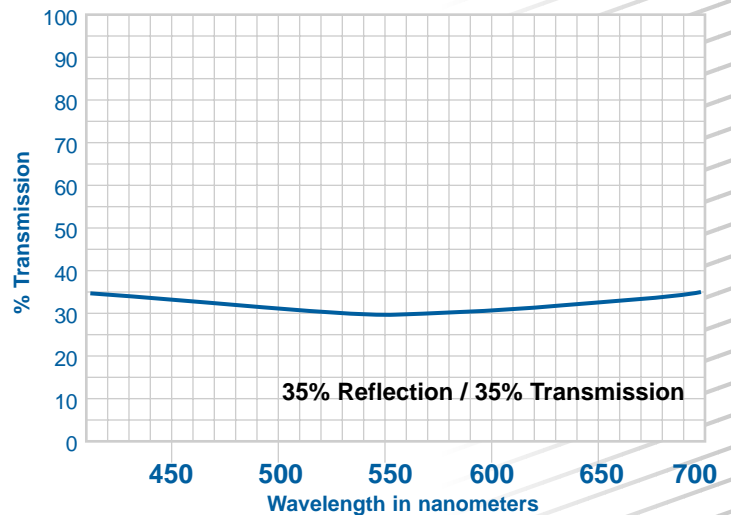
The metal beamsplitter coatings (**#3535**) offer reduced cost and a very neutral spectral performance at the expense of some coating absorption. These films typically have 35% reflection, 35% transmission and 30% absorption. They also offer the advantage of maintaining a neutral spectral balance over a wide angular range.

The multilayer designs (**#5050**) are non-absorbing, all dielectric thin films that offer the designer total light efficiency. Designs are available within the 300 to 1600 nanometer wavelength region in reflection/transmission ratios from 5/95 up to 95/5. We can advise you of the characteristics and performance of one or several possible designs for your particular application.

Applications

This family of thin films has many possible uses in a wide variety of applications including Heads-up displays, sensors, laser alignment, fiberoptic devices, medical imaging and vision systems. Contact one of our sales engineers to discuss your particular needs and take advantage of our free in-house design service.

ECI #3535



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