

Beamsplitter Coatings for Fiberoptic Components

Coatings
#3070-1 & #2100



General Description

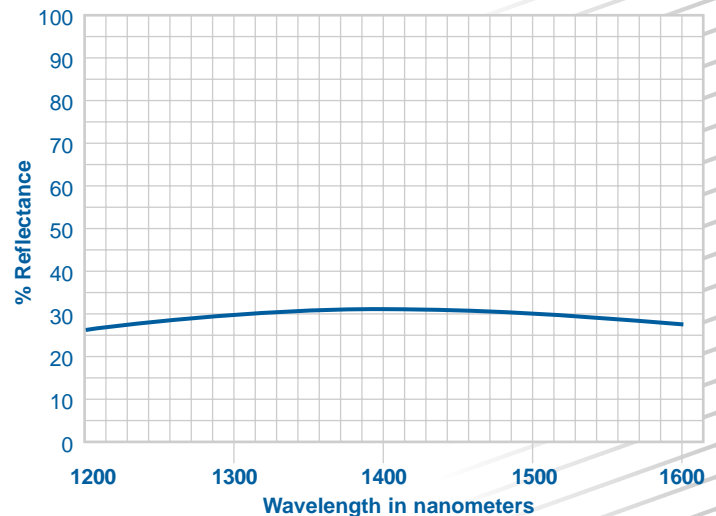
ECI offers a variety of beamsplitter coatings for deposition onto GRIN rod lenses, plastic components, glass/metal assemblies and fiber ends. These all-dielectric thin films are used to split an incident beam into two components. Various transmission/reflection ratios are available. All coatings are optimized for your specific angle of incidence, wavelength region, polarization, and incident medium.

Low temperature designs are available for components that require processing at temperatures below 50 degrees Celsius. These coatings are ideally suited for molded plastic components, metal TO caps with glass windows and bare or terminated fiber ends. These designs are applied with tremendous energy resulting in dense films that resist moisture and have excellent environmental properties.

Illustrated at right are two typical designs. The top right curve is a 70T/30R dielectric design deposited onto a GRIN rod lens for use with a cement incident medium at normal incidence. The bottom right curve demonstrates the performance of one of our special low polarization designs. This coating is useful for applications that need balanced s-plane and p-plane energy in the reflected or transmitted beam at a 45 degree incident angle.

Contact us with your particular requirements for a free computer simulation that illustrates the performance of a coating designed for your fiberoptic component.

ECI #3070-1 70T/30R



ECI #2100 20T/80R

