

# PEEK Buffer Material

## (Polyether Ether Ketone)

OFS Specialty Photonics has a long history of offering specialty coatings, buffers and cabling materials that allow our optical fibers to function in harsh environments. PEEK is a buffer material with exceptional properties that is now available from OFS.

PEEK offers superior resistance to chemicals, steam and moisture, and radiation. It is used as an optical fiber buffer where toughness and high temperature performance is required. PEEK is highly flame retardant and very low smoke generating. It is commonly used in medical applications and will survive all forms of sterilization. The superior chemical resistance, high temperature performance, and mechanical toughness make it an ideal optical fiber buffering material for geophysical or defense applications.

- Rated for continuous use at -55 to 240°C
- Highly rigid
- Mechanical and chemical resistant
- Resistant to heat degradation
- Resistant to organic and water environments
- High purity, low outgassing
- Halogen free yet flame retardant
- Low smoke and toxicity emissions
- Slick and abrasion resistant
- High strength
- High hardness

*An optical fiber can function in some applications with only a coating. In harsh environments a buffer can be applied over the coating to provide additional protection. In many cables the buffer is an intermediate layer between the fiber coating and the strength members and/or outer cable jacket.*

