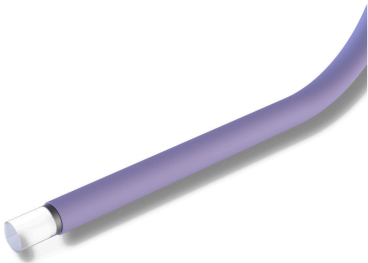


TOP® Borosilicate Glass Fiber

Specification Datasheet · TopRays Optical Fiber

Borosilicate fibers offer significant advantages in many applications at low cost. They provide excellent light transmission and, thanks to their high core-to-cladding ratio, can be packed tightly in bundles. To maintain transmission efficiency, bundle length should not exceed 30 feet.



Transmission Curve

N.A. 0.66, bundle diameter 0.200", single fiber diameter 0.002"

Technical Parameters

Parameter	Value
Maximum working temperature	480 °C
Core Diameter	Available from 25 to 100 μm
Minimum Bending Radius	50 × cladding diameter (long-term)

Specifications

Parameter	Value
Wavelength	400 – 700 nm
Numerical Aperture (NA)	Low 0.22 0.25 ± 0.02 · Standard 0.55 ± 0.02 · High 0.66 0.87 ± 0.02

Advantages

- Cost-effective, with fast prototyping
- High heat resistance
- Large numerical aperture (N.A.)
- Tightly packed fiber bundles
- Biocompatible materials
- Sterilization by ethylene oxide (ETO) and similar methods is possible

Structure

Borosilicate glass · thin cladding