

SPECIALTY OPTICAL FIBER

IXF-PMF-1550-125-P-012-E

Polarization-Maintaining Fiber

Exail proposes a range of standard PM Fibers with 125 μm cladding diameter.

Customized coatings and wavelengths available upon request.

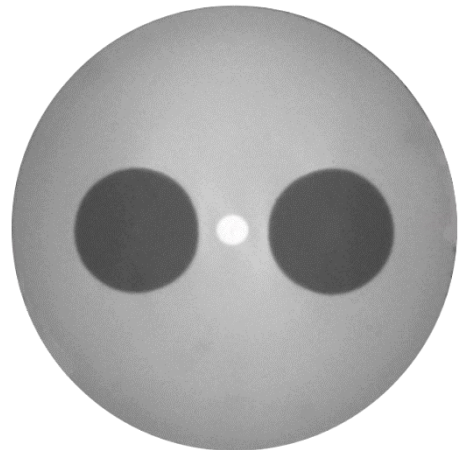
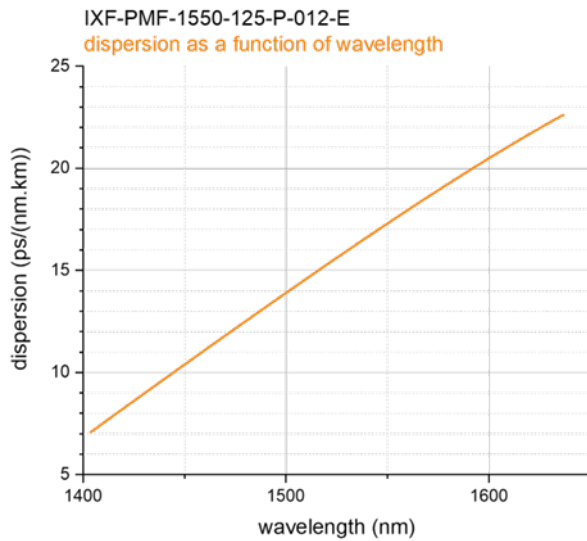


Benefits & Features

- Radiation tolerant fiber for space applications
- High birefringence
- Excellent polarization maintaining properties
- Low attenuation
- Dual-layer UV acrylate and 900 μm

Applications

- Coherent beam delivery
- Delay lines
- Diode & modulators pigtails
- Fiber optic sensors, gyroscopes and instrumentation
- Lyot depolarizers
- Polarization-sensitive components



TECHNICAL SPECIFICATIONS

Parameters

Cutoff wavelength (nm)	1390 ± 50
Attenuation @1550nm (dB/km)	< 0.5
Beat length @1550nm (mm)	< 3.7
Mode field diameter @1550nm (μm)	10.5± 0.5
Numerical aperture	0.12 ± 0.01
Core/Clad concentricity (μm)	< 1
Cladding diameter (μm)	125 ± 1
Coating diameter (μm)	250 ± 15
Proof test level (kpsi)	100

Design parameters

Operating wavelength (nm)	1550
Design	Panda
Core ellipticity (%)	< 15
Holding parameter (m ⁻¹)	< 1.10 ⁻⁵
Coating material	Dual acrylate
Typical RIA @1550 nm for 26 krad (γ ray) (dB/km/krad)	< 0.14
Operating temperature range (°C)	-40 to +85

Exail reserves the right to change, at any time and without notice, the specifications, design, function or form of its products described herein.

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