# ER35-7-PM

## Polarization-maintaining erbium-doped fiber

This Erbium-doped single-clad PM fiber features a high absorption and high birefringence that make this product the ideal solution for the design of eye-safe PM fiber lasers and amplifiers for a wide range of 1.5 µm applications.

## Features & Benefits

- High absorption– reduces nonlinear effects
- High birefringence – minimizes stress
- Provides highly efficient energy transfer, minimizing pump power requirements
- Low background losses

## Applications

- Ultrafast fiber lasers & amplifiers
- LiDAR
- Second Harmonic Generation
- Medical
- Scientific

## Related Products

- ER35-7
  Non-PM version

## Specifications

### Optical

| | |
|---|---|
| Core Absorption @ 1530 nm – Nominal (dB/m) | 35 ± 7 |
| Numerical Aperture – Core | 0.22 |
| Cutoff Wavelength (nm) | 1450 ± 50 |
| Mode Field Diameter @ 1550 nm (µm) | 6.5 ± 0.5 |
| Birefringence | ≥ 1.4E-04 |

### Geometrical & Mechanical

| | |
|---|---|
| Core Diameter (µm) | 5.8 ± 0.5 |
| Cladding Diameter (µm) | 125 ± 2 |
| Core/Cladding Concentricity Error (µm) | < 1.0 |
| Coating Diameter (µm) | 245 ± 10 |
| Proof Test (kpsi) | ≥ 100 |

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 100-10-0605.R1

2700 Jean-Perrin, suite 121, Quebec QC G2C 1S9 Canada | sales@coractive.com | + 1 418 845-2466