

TECHNICAL OVERVIEW

Spectral Range

350–2200 nm

Core Diameter

100–2000 μm

Core / Cladding Ratio

Standard 1:1.04–1:1.4
or customized upon request

Numerical Aperture

0.40 \pm 0.02
or customized upon request

OH Content

PUV: High (>700 ppm)
PWF: Low (<1 ppm)

Operating Temperature

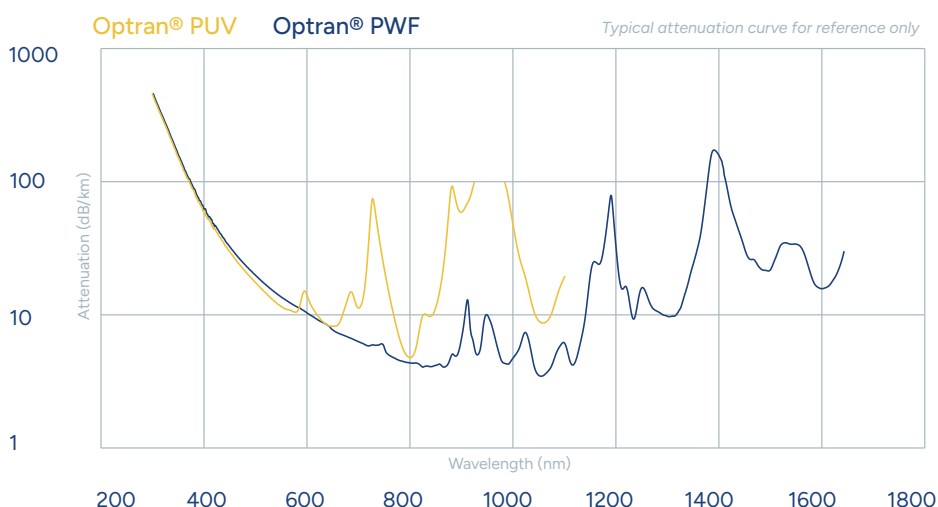
-40 °C to +150 °C

Standard Proof Test

100 kpsi

Silica Core Fiber with Silicone Cladding

Optran® PUV and Optran® PWF are designed for efficient light coupling in applications requiring high flexibility. The silicone cladding provides enhanced mechanical robustness and flexibility, making these fibers well suited for dynamic or space-constrained setups across the UV to NIR spectral range.



PERFORMANCE & INTERGRATION NOTES

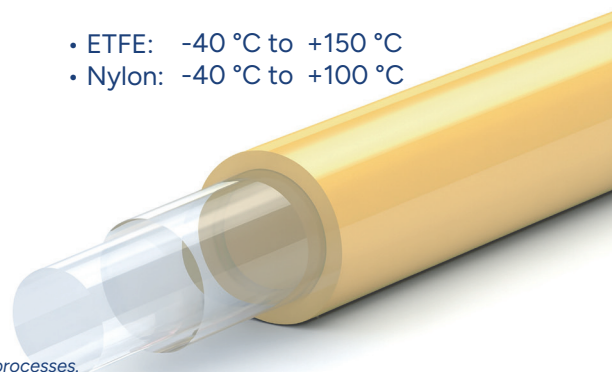
- Step-index profile ensures stable light transmission
- High numerical aperture supports efficient light coupling
- Available as UV-optimized (PUV) or VIS/NIR (PWF) fiber
- Cost-effective alternative to silica/silica fibers

APPLICATIONS

- Remote Illumination
- Spectroscopy
- Laser Delivery Systems
- Industrial Sensing
- Analytical Measurement
- Medical Instrumentation

AVAILABLE JACKETS

- ETFE: -40 °C to +150 °C
- Nylon: -40 °C to +100 °C



*In-house preform production and controlled drawing processes.
Reproducible optical and mechanical properties across production batches.*

*Additional specifications, reference data and project-specific qualification information available upon consultation.
Product specifications are subject to change without notice.*