

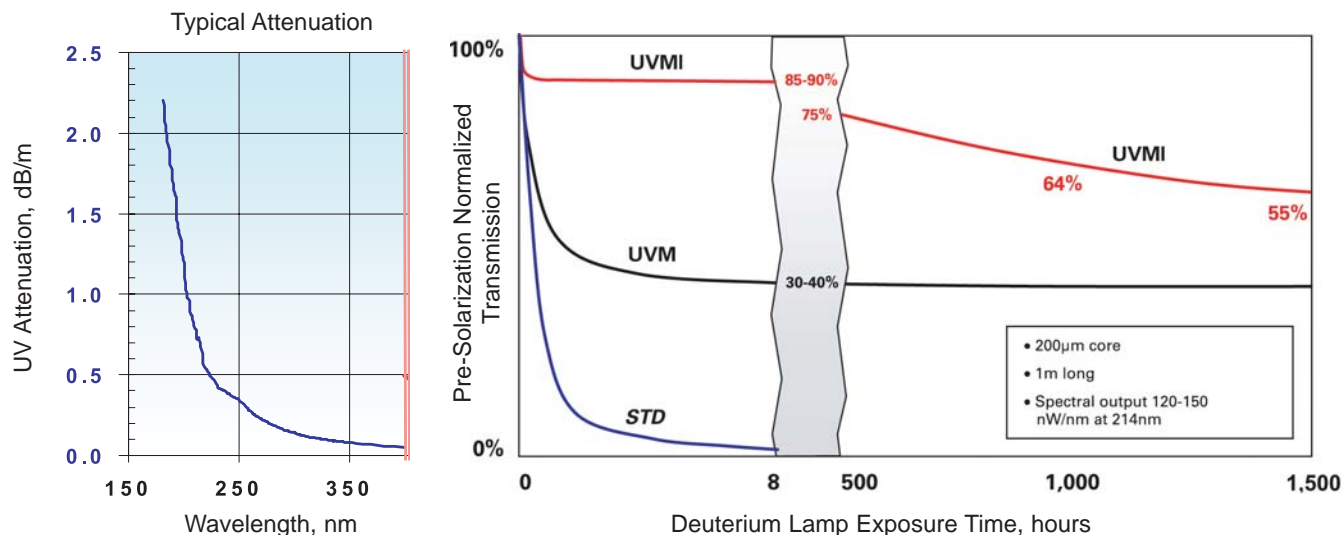
• Solarization Resistant

Characteristics

- Step Index
- Numerical Aperture: 0.22 ± 0.02
- UV-Vis-NIR Transmission, 180nm to 1150nm
- Sterilizable*
- Optional Jacketing Available
- Core Sizes: 50µm to > 1000µm
- Excellent Concentricity
- Tight Tolerances
- Silica Core, Doped Silica Clad
- Polyimide Concentricity: ± 3µm
- Polyimide Buffer Standard; Silicone, Acrylate, Fluoropolymer, Aluminum, or dual buffer also available
- Temperature: Operating -65°C to +300°C
Intermittent up to 400°C
- Proof Tested from 100kpsi

* The end manufacturer is responsible for bio-compatibility and sterilization testing and validation studies.

For applications in the UV region (190nm - 325nm), effects of high levels of UV radiation on the transmission of a silica core optical fiber must be considered. Solarization changes depend on the type of fiber used as well as the intensity and spectral output of the UV source. These changes are wavelength dependent. Typical characteristics of standard high -OH core (STD), hydrogen loaded core (UVMI) and modified core (UVM) are shown in the following graph. Let Polymicro assist you in selecting the best-suited fiber for your application. Standard core sizes of 100µm, 200µm, 300µm, 400µm, and 600µm. Custom sizes available.



Type	Core	Advantages	Disadvantages
UVMI	H ₂ loaded Modified	<ul style="list-style-type: none"> • Excellent deep UV transmission • Rapid stabilization • High recovery of transmission 	<ul style="list-style-type: none"> • Long term transmission degradation • Environment dependent transmission • Fiber size dependent
UVM	Modified	<ul style="list-style-type: none"> • Good deep UV transmission • Long term stability • Some recovery of transmission 	<ul style="list-style-type: none"> • Lower transmission degradation recovery • Longer to stabilize
STD	High -OH	<ul style="list-style-type: none"> • Transmission down to 280nm • Lowest cost 	<ul style="list-style-type: none"> • Rapid transmission degradation below 280nm, non-reversible



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