

Polymicro SILICA/ SILICA Optical Fiber DUV

Solarization Resistant

Typical characteristics of standard High -OH core (FV), hydrogen loaded core (UVM), modified core (UVM) and deep UV enhanced (FD) are shown in the following table. 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.

CHARACTERISTICS

Step index

Optional jacketing available

Polyimide concentricity: $\leq 3\mu\text{m}$

Numerical aperture: 0.22 ± 0.02

Core sizes: 50µm to > 1000µm

Polyimide buffer standard; Silicone, Acrylate, Fluoropolymer or dual buffer also available

UV-VIS-NIR transmission, 180nm to 850nm

Excellent concentricity

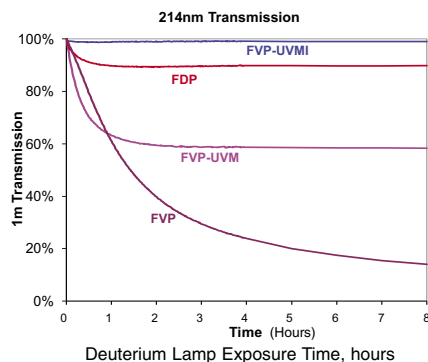
Temperature: operating -65° to $+200^\circ\text{C}$

Sterilizable and bio-compatible –
USP class VI*

Tight tolerances

Proof tested to 100kpsi

Silica core, doped silica clad



Specifications

Fiber Type	Wavelength Range	Characteristics	Cost
FVP	240-850nm	- Economical - High solarization - Damage below 240nm - Minimal solarization recovery - All sizes available - Alternate coatings available	Very Low
FVP-UVM	200-850nm	- Moderate solarization damage - Minimal solarization recovery - All sizes available - Alternate coatings available	Low
FVP-UVMi	<200-850nm	- Very small solarization damage - Diameter and temperature dependent Degradation with time - Only larger diameters recommended ($\geq 400\mu\text{m}$) - Refrigeration recommended when not in use - Reverts to FVP-UVM over time - Available with polyimide coating only	Moderate
FDP	<200-850nm	- Small solarization damage - Minimal solarization recovery - No shelf life issues - Diameters 100µm to 600µm available - Available with polyimide coating only	Moderate

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

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