

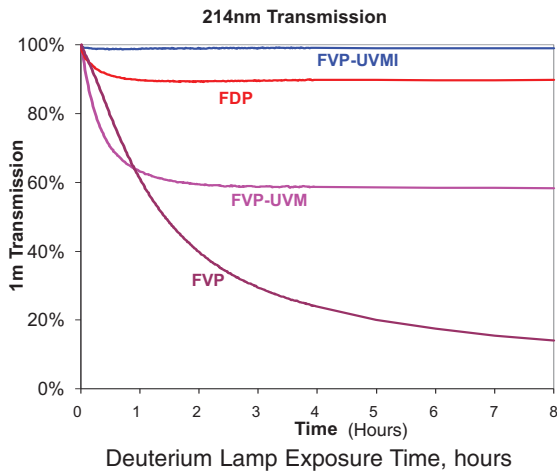
Solarization Resistant

Polymicro SILICA/ SILICA Optical Fiber DUV

Typical characteristics of standard High -OH core (FV), hydrogen loaded core (UVMI), 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: ≤ 3µm
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°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	<ul style="list-style-type: none"> Economical High solarization Damage below 240nm Minimal solarization recovery All sizes available Alternate coatings available 	Very Low
FVP-UVM	200-850nm	<ul style="list-style-type: none"> Moderate solarization damage Minimal solarization recovery All sizes available Alternate coatings available 	Low
FVP-UVMI	<200-850nm	<ul style="list-style-type: none"> Very small solarization damage Diameter and temperature dependent Degradation with time Only larger diameters recommended (≥400µm) Refrigeration recommended when not in use Reverts to FVP-UVM over time Available with polyimide coating only 	Moderate
FDP	<200-850nm	<ul style="list-style-type: none"> 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.