

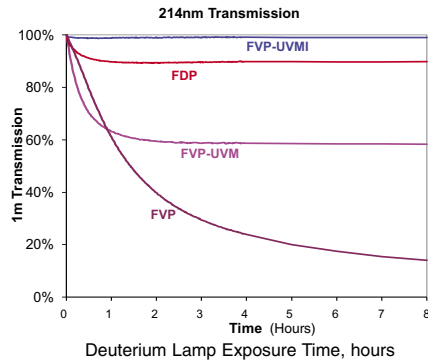
**Polymicro SILICA/  
SILICA Optical  
Fiber DUV**

**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: ≤ 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"> <li>Economical</li> <li>High solarization</li> <li>Damage below 240nm</li> <li>Minimal solarization recovery</li> <li>All sizes available</li> <li>Alternate coatings available</li> </ul>	Very Low
FVP-UVM	200-850nm	<ul style="list-style-type: none"> <li>Moderate solarization damage</li> <li>Minimal solarization recovery</li> <li>All sizes available</li> <li>Alternate coatings available</li> </ul>	Low
FVP-UVMI	<200-850nm	<ul style="list-style-type: none"> <li>Very small solarization damage</li> <li>Diameter and temperature dependent Degradation with time</li> <li>Only larger diameters recommended (≥400µm)</li> <li>Refrigeration recommended when not in use</li> <li>Reverts to FVP-UVM over time</li> <li>Available with polyimide coating only</li> </ul>	Moderate
FDP	<200-850nm	<ul style="list-style-type: none"> <li>Small solarization damage</li> <li>Minimal solarization recovery</li> <li>No shelf life issues</li> <li>Diameters 100µm to 600µm available</li> <li>Available with polyimide coating only</li> </ul>	Moderate

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