**FDP Characteristics**

- Step Index
- Numerical Aperture: 0.22 ± 0.02  
  Full Acceptance Cone: 25.4 degrees
- Operating wavelength down to 190nm
- Ultra High UV Transmission
- Ultra Low UV Solarization
- Superior Radiation Resistance
- Sterilizable & Bio-compatible – USP Class VI*
- High Laser Damage Threshold
- High -OH Silica Core, Doped Silica Clad
- Polyimide Buffer Standard
- Polyimide Concentricity ≤ 3µm
- Custom core sizes, buffers, and assemblies available
- Proof Tested to 100kpsi
- Operating Temperature: −65ºC to +300ºC

For applications in the deep 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.

<table>
<thead>
<tr>
<th>Product Descriptor</th>
<th>Core (µm)</th>
<th>Clad (µm)</th>
<th>Buffer (µm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDP100110125</td>
<td>100 ± 3</td>
<td>110 ± 3</td>
<td>124 ± 3</td>
</tr>
<tr>
<td>FDP200220240</td>
<td>200 ± 4</td>
<td>220 ± 4</td>
<td>240 ± 5</td>
</tr>
<tr>
<td>FDP400440480</td>
<td>400 ± 8</td>
<td>440 ± 9</td>
<td>480 ± 7</td>
</tr>
<tr>
<td>FDP600660710</td>
<td>600 ± 10</td>
<td>660 ± 10</td>
<td>710 ± 10</td>
</tr>
</tbody>
</table>

**Note:** The items listed in this table are standard configurations and sizes. Other configurations may be available on request. Please let us know what we can do to help satisfy your project requirements.

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

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**Typical Attenuation**

**Post 4 Hour UV Exposure**

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**Polymicro TECHNOLOGIES**

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