



**780HP**

### Description

Thorlabs' 780-HP high-performance fiber is optimized at near IR wavelengths. It was developed for applications that require coupler generation, and diode pigtails for the near IR continuum. This fiber also offers a tight bend radius for applications in miniaturized fiber optic packages.

### Specifications

Geometrical & Mechanical	
Cladding Diameter	125 ± 1 μm
Coating Diameter	245 ± 15 μm
Core Diameter	4.4 μm
Core-Clad Concentricity	<0.5 μm
Coating Concentricity	≤5 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	-55 to 85 °C
Minimum Bend Radius	6 mm (Momentary) 13 mm (Long Term)
Proof Test Level	200 kpsi (2%) (1.4 GN/m <sup>2</sup> )



Optical	
Numerical Aperture (nominal)	0.13
Core Attenuation	≤4.0 dB/km @ 780 nm ≤3.5 dB/km @ 850 nm
Operating Wavelength	780 - 970 nm
Second Mode Cut-Off	730 ± 30 nm
Mode Field Diameter (nominal) (1/e <sup>2</sup> fit - near field)	5.0 ± 0.5 μm @ 850 nm

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