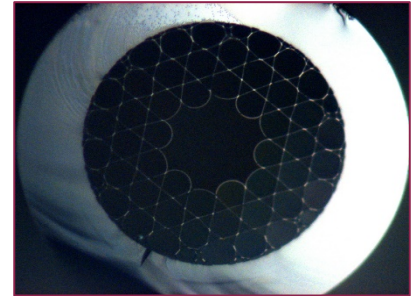


PMC-C-TiSa_Er-7C

Kagome Hollow-Core Fiber with optimized performance for 800nm and 1550nm. Ideal For Ti-Saph and Erbium based lasers.

- *Broad Spectral Coverage*
- *Large Core Size*
- *Nearly Single Mode Guidance*
- *Low Dispersion*
- *Record-high laser damage threshold**



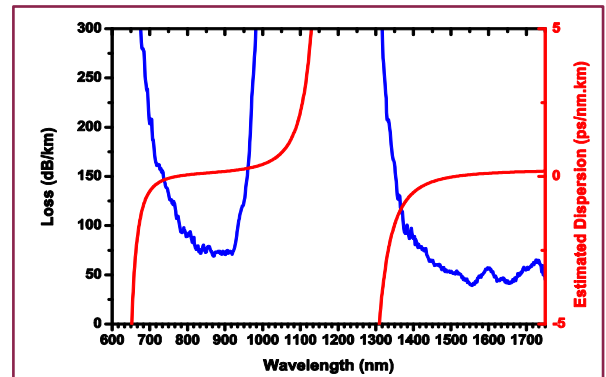
Optical micrograph of fiber end facet

Physical Properties

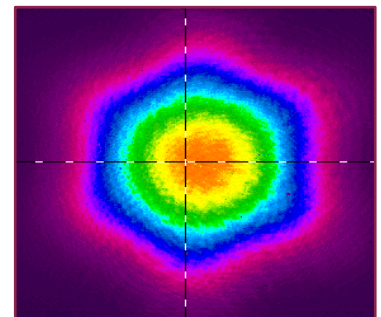
Core contour	Hypocycloid with negative curvature parameter $b=1^*$
Inner Core Diameter	$63 \mu\text{m} \pm 1$
Outer Fiber Diameter	$300 \mu\text{m} \pm 1$
Fiber Coating Layer	Primary polymer coating

Optical Properties

Center Wavelength	800 nm / 1600nm
Attenuation @ 800 nm /1550 nm	$<80 \text{ dB/km} \pm 5$
Dispersion @ 800 nm /1550 nm	$1 \text{ ps/nm/km} \pm 0.5$
Transmission band** **Attenuation lower than 100 dB/km for the 1300-1750nm	$>100 \text{ nm} / >300\text{nm}$
Mode Field Diameter ($1/e^2$)	$44 \mu\text{m} \pm 1$
3 dB bend loss radius	$5 \text{ cm} \pm 2$



Typical attenuation and dispersion



Typical output near field profile @ 800 nm

* See See *CLEO STh4L.7, 2015*

** For b definition, see *Opt. Exp.* **21**, no. 23, 28597, 2013

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