

PMC-C-Blue

Hollow-Core Fiber optimized for blue spectral range.



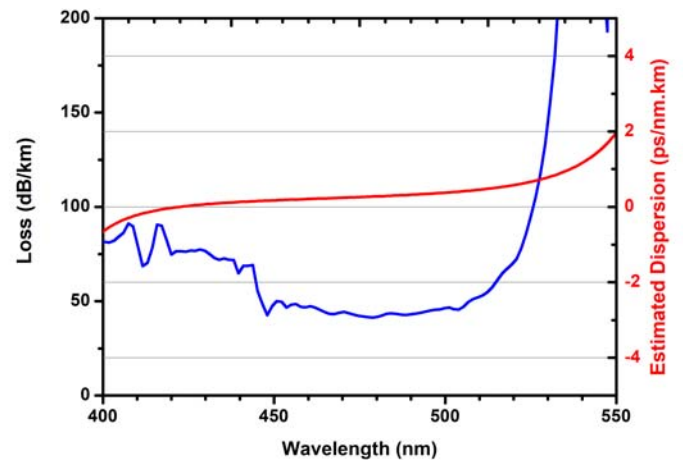
- *Nearly single mode guidance*
- *Low dispersion, low loss*
- *High power and energy handling*
- *Broad spectral coverage*

Physical Properties

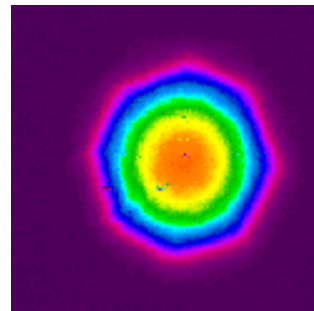
Core contour	Hypocycloid
Inner core diameter	$30\ \mu\text{m} \pm 2\ \mu\text{m}$
Outer fiber diameter	$200\ \mu\text{m} \pm 1\%$
Fiber coating diameter	$375\ \mu\text{m} \pm 25\ \mu\text{m}$

Optical Properties

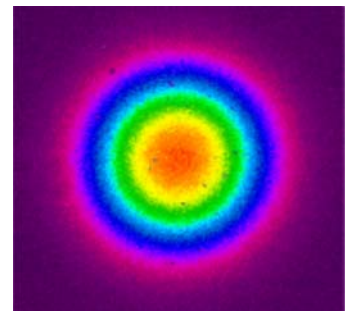
Attenuation	<100 dB/km
Attenuation @ 450 nm	<50 dB/km
Dispersion @ 450 nm	$0.5\ \text{ps/nm.km} \pm 0.5$
Mode Field Diameter ($1/e^2$) @ 450nm	$21\ \mu\text{m} \pm 2\ \mu\text{m}$
N.A.	0.014 ± 0.002



Typical attenuation and dispersion



Output near field profile



Output far field profile



PMC-C-Green

Hollow-Core Fiber optimized for 500-700nm range.



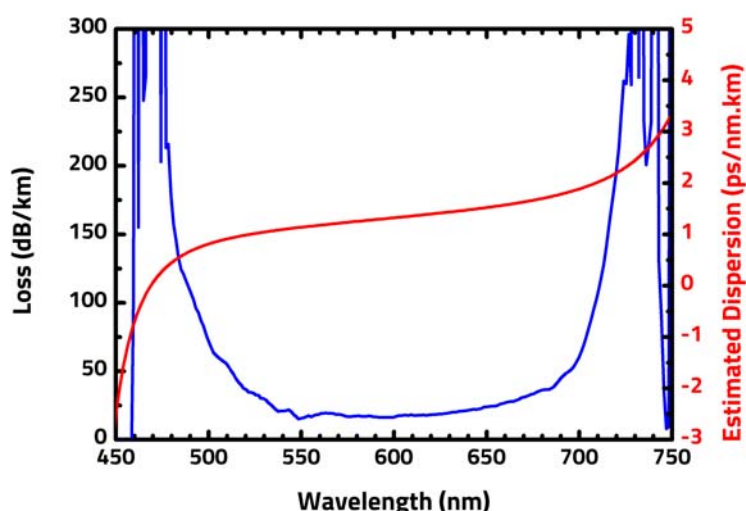
- Nearly single mode guidance
- Low dispersion, low loss
- High power and energy handling
- Broad spectral coverage

Physical Properties

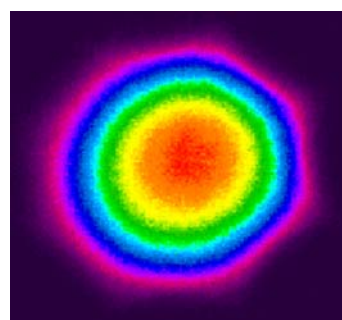
Core contour	Hypocycloïde
Inner core diameter	30 $\mu\text{m} \pm 1$
Outer fiber diameter	200 $\mu\text{m} \pm 3\%$
Fiber coating layer	Primary polymer coating

Optical Properties

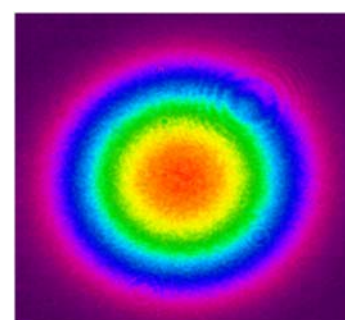
Center Wavelength	600 nm
Attenuation @ 532 nm	30 dB/km ± 10
Dispersion @ 532 nm	1.5 ps/nm.km ± 0.5
Transmission band** *Attenuation lower than 100 dB/km for the 500-700nm	200 nm
Mode Field Diameter (1/e ²)	24 $\mu\text{m} \pm 1$
3 dB bend loss radius	10 cm ± 2



Typical attenuation and dispersion



Output near field profile



Output far field profile

Only available in the framework of an R&D collaboration



PMC-C-Green-40

Hollow-Core Fiber optimized for green spectral range.



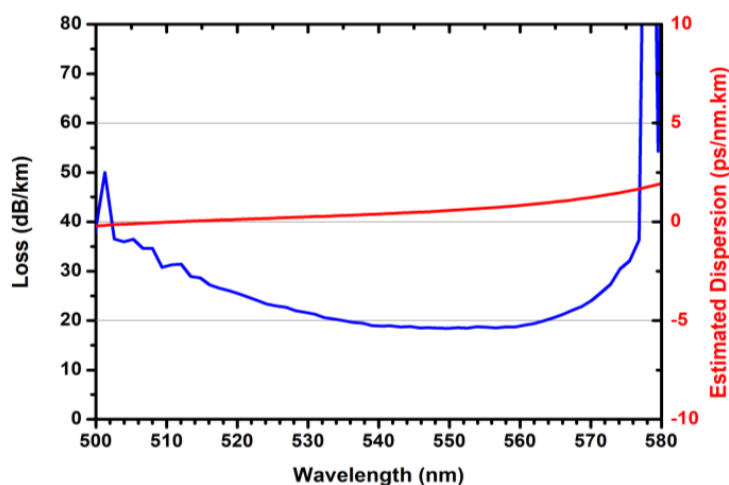
- *Nearly single mode guidance*
- *Low dispersion, low loss*
- *High power and energy handling*
- *Broad spectral coverage*

Physical Properties

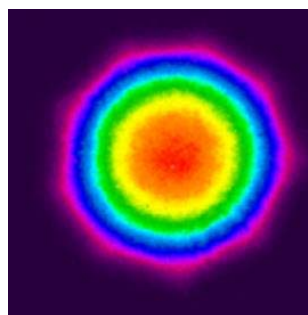
Core contour	Hypocycloid
Inner core diameter	40 $\mu\text{m} \pm 2\mu\text{m}$
Outer fiber diameter	230 $\mu\text{m} \pm 1\%$
Fiber coating diameter	400 $\mu\text{m} \pm 30\mu\text{m}$

Optical Properties

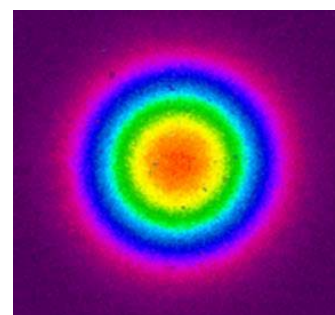
Attenuation @ 515 nm	<30 dB/km
Attenuation @ 532 nm	<30 dB/km
Dispersion @ 532 nm	1 ps/nm.km $\pm$ 0.5
Mode Field Diameter (1/e ²) @ 532nm	26 $\mu\text{m} \pm 1 \mu\text{m}$
M ² @ 532nm	<1,2
N.A.	0.014 $\pm$ 0.002



Typical attenuation and dispersion



Output near field profile



Output far field profile



PMC-C-Green-26

Hollow-Core Fiber optimized for green spectral range.



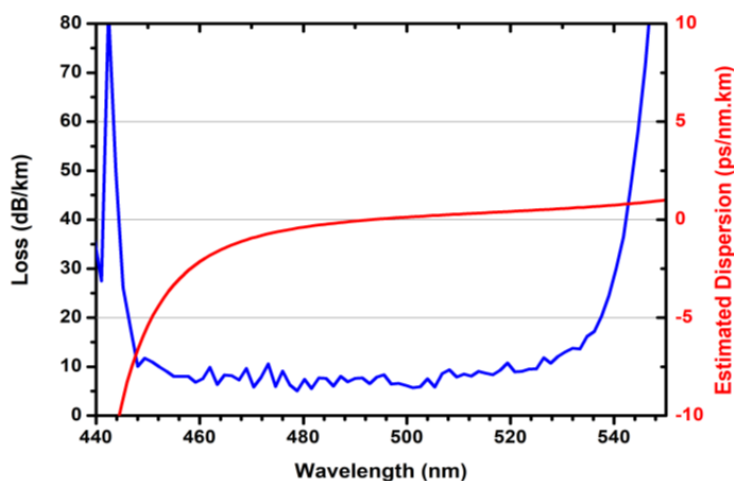
- *Nearly single mode guidance*
- *Low dispersion, low loss*
- *High power and energy handling*
- *Broad spectral coverage*

Physical Properties

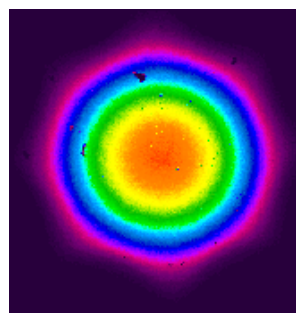
Core contour	Hypocycloid
Inner core diameter	$26 \mu\text{m} \pm 2 \mu\text{m}$
Outer fiber diameter	$200 \mu\text{m} \pm 1\%$
Fiber coating diameter	$400 \mu\text{m} \pm 30 \mu\text{m}$

Optical Properties

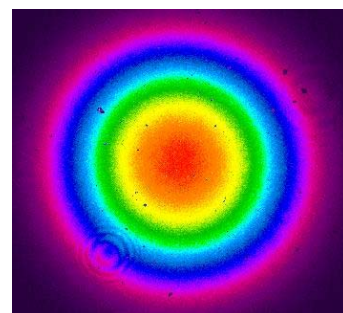
Attenuation @ 515 nm	<30 dB/km
Attenuation @ 532 nm	<30 dB/km
Dispersion @ 532 nm	$1 \text{ ps/nm.km} \pm 0.5$
Mode Field Diameter ($1/e^2$) @ 532nm	$19 \mu\text{m} \pm 1 \mu\text{m}$
M^2 @ 532nm	<1,2
N.A.	0.02 ± 0.002



Typical attenuation and dispersion



Output near field profile



Output far field profile

