

# NL-1050-NEG-1

## Nonlinear Photonic Crystal Fiber

- Small mode field area
- High nonlinear coefficient
- Flat anomalous dispersion

This highly nonlinear photonic crystal fiber benefits from a special core design to obtain a parabolic dispersion curve where the dispersion is normal and flat in the 1000 – 1100 nm range.

The fiber is available spliced to standard single-mode fiber.

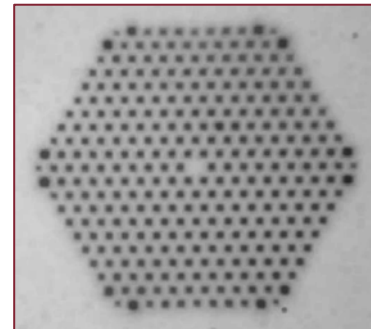
### Applications

- Stable supercontinuum generation

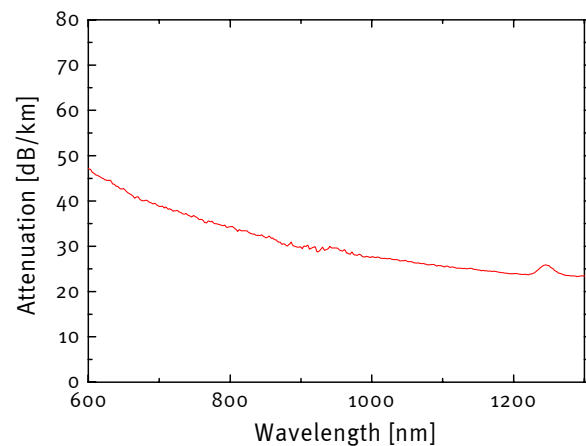
Physical properties	
Material	Pure Silica
Cladding diameter	127 ± 5 μm
Coating diameter	245 ± 10 μm
Coating material, single layer	Acrylate
Core diameter	2.3 ± 0.3 μm

Optical properties	
Dispersion	< -2 ps/nm/km
Attenuation @ 1000-1100 nm	< 30 dB/km
Mode field diameter @ 1064 nm	2.2 ± 0.5 μm
Numerical aperture @ 1064 nm	~ 0.37
Nonlinear coefficient @ 1064 nm	~ 37 (Wkm) <sup>-1</sup>
Cut-off wavelength	< 300 nm
Splicing loss @ 980 nm	< 0.7 dB *)

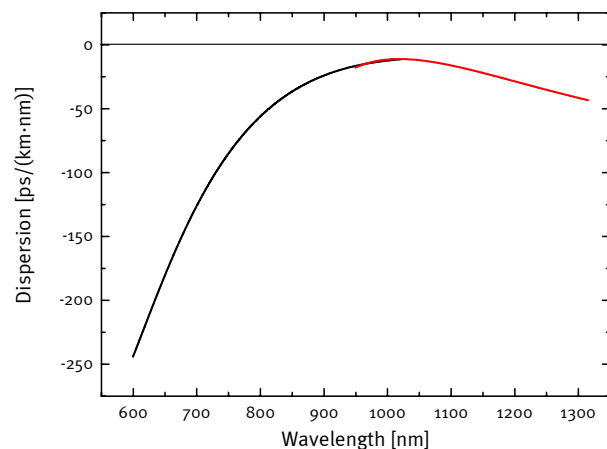
\*)Total splicing loss for splicing to standard fiber via an intermediate fiber



### Typical spectral attenuation



### Typical dispersion



NL-1050-NEG-1-081020