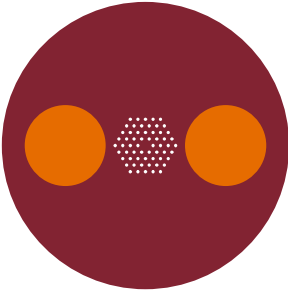


SC-5.0-1040-PM

Polarization maintaining nonlinear fiber for supercontinuum generation

- Optimized for 1 μm wavelength pumping
- Single mode
- Polarization maintaining
- Pure silica



This single-mode PM nonlinear photonic crystal fiber combines a high nonlinear coefficient with zero dispersion around 1040 nm to allow efficient supercontinuum generation using 1060 nm range pulsed lasers such as microchip lasers, mode-locked lasers or directly modulated laser diodes.

Typical supercontinuum applications require only 10-20m of fiber depending on the pump laser configuration.

The fiber is available with various termination options through third party.

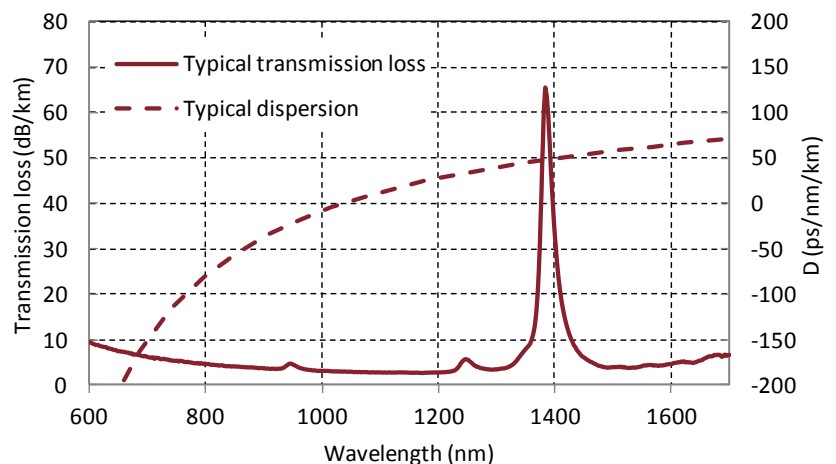
Specifications

Optical

| | |
|----------------------------|-----------------------------|
| Zero dispersion wavelength | 1040 \pm 15 nm |
| Mode field diameter | 4.3 \pm 0.2 μm |
| NA @ 1060 nm | 0.20 \pm 0.05 |
| HOM cut-off wavelength | < 1000 nm |
| Birefringence @ 1060 nm | > 1.7 $\cdot 10^{-4}$ |
| Attenuation @ 1040 nm | < 3 dB/km |
| Attenuation @ 1550 nm | < 2.5 dB/km |
| Attenuation @ 1600 nm | < 25 dB/km |

Physical

| | |
|-------------------|----------------------------|
| Material | Pure silica |
| Cladding diameter | 125 \pm 3 μm |
| Coating diameter | 244 \pm 10 μm |
| Coating material | Single layer acrylate |



Applications

Broadband continuum generation for:

- Spectroscopy and Microscopy
- Metrology



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