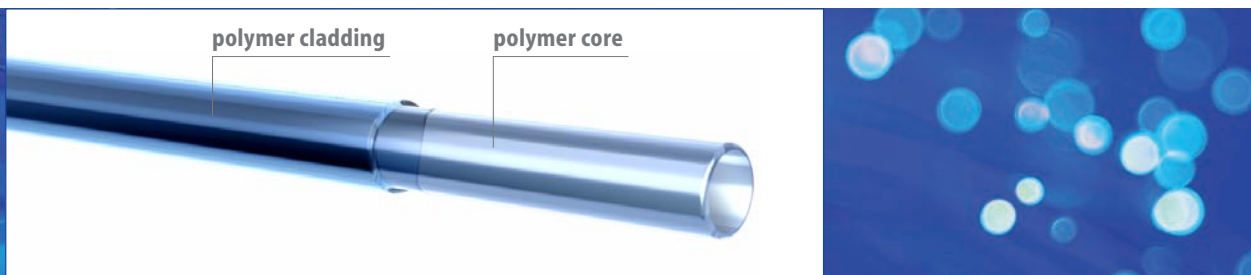


## GI-POF



### Polymer Optical Fiber (POF)

Description	GP900/1000	GP120/500
Description IEC 60793-2	–	A4g

#### Geometric/thermal properties

Core diameter (µm)	900 ± 50	120
Cladding diameter (µm)	1000 ± 60	490 ± 5
Working temperature (°C)	–30 to 60	–10 to +60

#### Transmission properties

Wavelength (nm)	650	1300 850
Attenuation max. (dB/km)	200	60 60
Min bandwidth (MHz x 100 m)	1500	2500
Effective numerical aperture	0.21 to 0.23	0.19

The graded index POF shows nearly the same bandwidth like the standard silica graded index fibers. The advantage of the GI-POF is a simpler assembly.

The GP900/1000 is only applicable at 650 nm. The core of the GP120/500 is perfluorinated. Hence, a much less absorption is

achieved in the wavelength range between 650 to 1300 nm in comparison to the standard POF.

While the GP900/1000 can be assembled with standard POF connectors, special connectors are developed for the GP120/500.

#### Typical attenuation spectra for GI-POF GP 120/500

