# Specifications for Plastic Optical Fiber

## Multicore POF<sup>™</sup> SMCK-1000P

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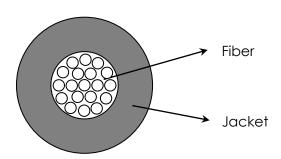
Plastic Optical Fiber

Marketing & Development Gr



### 1, STRUCTURE

ITEM	UNIT	Specifications
Core Material		PMMA
Clad Material		Fluorinated Polymer
Core reflective index		1.49
Reflective index Profile		Step index
Fiber Diameter	μm	1000 ± 80
Core Number		19
NA		0.6
Jacket Material		PE
Jacket Diameter	μm	2200 ± 70
Jacket Color		Black
Approx. weight	g/m	3.6





#### 2, PROPERTIES

ITEM	UNIT	Specifications	
Storage Temperature Range	°C	-55 ~ 85	
Application Temperature Range	°C	-55 ~ 85	
Attenuation	dB/m	≤ 0.5	*1
Tensile Strength at Break Point	N	≥ 80	*2
Minimum Bending Radius	mm	2	*3

#### Sample conditions

Temperature:  $T = 23^{\circ}C$ Humidity: RH = 50%Storage time: t = 200h

\*1 : Light Source : LED (Peak Wavelength = 657nm), 20-2m Cut-back Method

\*2 : Interval between grippers = 100 mm, Tensile Speed = 100mm/min

\*3: L = 2m, 90 degree bending at the middle of fiber Light Source: LED (Peak Wavelength = 657nm)

Transmission Rate ≥ 90%

#### 3, RoHS certification

The product does not contain RoHS 2 hazardous substances, Cadmium, Lead, Mercury, Chromium (VI), PBB, PBDE, DIBP, DEHP, DBP and BBP intentionally.