Specifications for Plastic Optical Fiber

SB-1000

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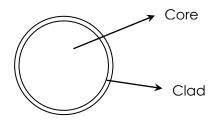
Plastic Optical Fiber

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
Core Diameter	μm	970±60
Fiber Diameter	μm	1000 ± 60
NA		0.6
Approx. weight	g/m	1.0





2, PROPERTIES

ITEM	UNIT	Specifications	
Storage Temperature Range	°C	-55 ~ 85	*1
Application Temperature Range	°C	-55 ~ 85	*1
Operating Temperature in a Moist Atmosphere (85% RH)	°C	≤85	*1
Attenuation (23 °C 50%)	dB/km	≤ 160	*2
Attenuation (Operating Temperature)	dB/km	≤ 190	*2
Tensile Strength at Break Point	N	≥ 75	*3
Minimum Bending Radius	mm	20	*4

Sample conditions

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

*1 : After 1000h, Attenuation Increase shall be ≤10% of the specification *2 : Monochromatic light at 650nm, LNA = 0.15, 20-2m Cut-back Method *3 : Interval between grippers = 100 mm, Tensile Speed = 100mm/min

*4 : 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.

4, IEC 61249-2 compliance

The product complies with IEC 61249-2. Chlorine <900ppm Bromine <900ppm Total Bromine + Chlorine <1500ppm