Specifications for Plastic Optical Fiber

Multicore POF™ PMC-1000

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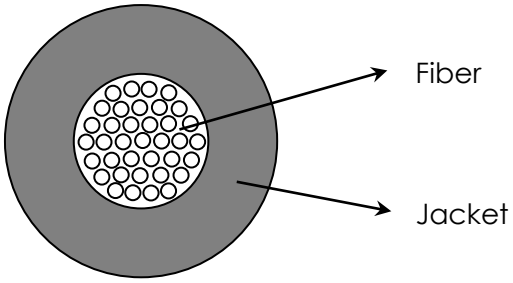
Issued by : Asahi Kasei Corporation
Plastic Optical Fiber
Marketing & Development Gr

1, STRUCTURE

ITEM	UNIT	Specifications
Core Material		PMMA
Clad Material		Fluorinated Polymer
Fiber Diameter	μm	1000 ± 60
Core reflective index		1.49
Reflective index Profile		Step index
Core Number		37
NA		0.2
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 ~ 60	
Application Temperature Range	°C	-55 ~ 60	
Attenuation	dB/km	≤ 300	*1
Tensile Strength at Break Point	N	≥ 80	*2
Minimum Bending Radius	mm	5	*3
Bandwidth	MHz	300	*4

Sample conditions
Temperature: T = 23°C
Humidity: RH = 50%
Storage time: t = 200h

*1 : Monochromatic light at 650nm, LNA = 0.15, 52-2m 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%
*4 : L = 50m

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.