

Specifications for Plastic Optical Fiber

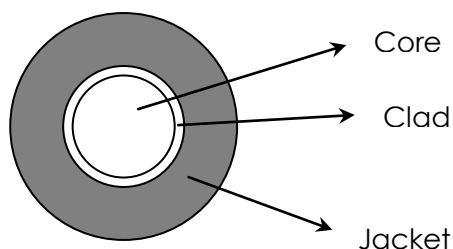
DC-500

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

1, STRUCTURE

ITEM	UNIT	Specifications
Core Material		PMMA
Clad Material		Fluorinated Polymer
Fiber Diameter	μm	500 ± 30
NA		0.5
Jacket Material		PE
Jacket Diameter	μm	1000 ± 60
Jacket Color		Black

2, PROPERTIES

ITEM	UNIT	Specifications	
Application Temperature Range	°C	-55 ~ 70	
Attenuation	dB/m	≤ 0.20	*1
Tensile Strength at Break Point	N	≥ 20	*2
Elongation at Break Point	%	≥ 70	*2
Minimum Bending Radius	mm	20	*3

3, RoHS certification

The product does not contain RoHS 2 hazardous substances, Cadmium, Lead, Mercury, Chrome VI, PBB, PBDE, HBCDD, DEHP, DBP and BBP intentionally.

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%