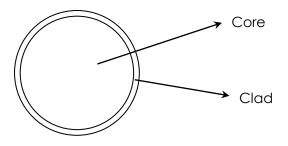
Specifications for Plastic Optical Fiber

<u>DB-2000</u>

- Issued on : April 30, 2020
- Issued by : Asahi Kasei Corporation Plastic Optical Fiber Marketing & Development Gr

<u>1, STRUCTURE</u>

ITEM	UNIT	Specifications
Core Material		PMMA
Clad Material		Fluorinated Polymer
Core reflective index		1.49
NA		0.5
Reflective index Profile		Step index
Core Diameter	μm	1960 ± 120
Fiber Diameter	μm	2000 ± 120
NA		0.5



2, PROPERTIES

ITEM	UNIT	Specifications	
Storage Temperature Range	°C	-55 ~ 70	*1
Application Temperature Range	°C	-55 ~ 70	*1
Attenuation	dB/km	≤ 160	*2
Tensile Strength at Break Point	N	≥ 300	*3
Minimum Bending Radius	mm	40	*4

Sample conditions

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

*1 : After 1000h, Attenuation Increase shall be $\leq 10\%$ of the specification

*2 : Monochromatic light at 650nm, LNA = 0.15, 52-2m 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.