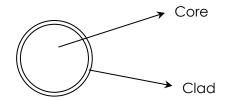
## Specifications for Plastic Optical Fiber

# <u>SB-250</u>

- Issued on : March 4, 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		0.6
Reflective index Profile		Step index
Core Diameter	μm	230 ± 15
Fiber Diameter	μm	250 ± 15
Approx. weight	g/m	0.06



## 2, PROPERTIES

ITEM	UNIT	Specifications	
Storage Temperature Range	°C	-55 ~ 85	*]
Application Temperature Range	°C	-55 ~ 85	*]
Attenuation (23 °C 50%)	dB/km	≤300	*2
Tensile Strength at Break Point	Ν	≥ 3	*3
Minimum Bending Radius	mm	1	*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, 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, Chrome**VI**, PBB, PBDE, DIBP, DEHP, DBP and BBP intentionally.