

# Specifications for Plastic Optical Fiber

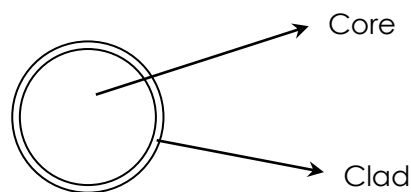
## SB-500

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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	500 ± 30
NA		0.6



## 2, PROPERTIES

ITEM	UNIT	Specifications	
Application Temperature Range	°C	-55 ~ 85	
Attenuation	dB/m	≤ 0.16	*1
Tensile Strength at Break Point	N	≥ 15	*2
Minimum Bending Radius	mm	9	*3

### 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%

## 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.