

# Specifications for Plastic Optical Fiber

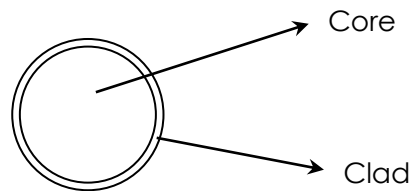
## SZB-400

Issued on : June 15, 2021

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

## 1, STRUCTURE

ITEM	UNIT	Specifications
Core Material		PMMA
Clad Material		Fluorinated Polymer
Core reflective index		1.49
Reflective index Profile		Step index
Fiber Diameter	μm	400 ± 25
NA		0.63



## 2, PROPERTIES

ITEM	UNIT	Specifications	
Application Temperature Range	°C	-55 ~ 85	
Attenuation	dB/km	≤ 300	*1
Tensile Strength at Break Point	N	≥ 8	*2
Minimum Bending Radius	mm	8	*3

### Sample conditions

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

\*1 : Monochromatic light at 650nm, LNA = 0.15, 20-2m 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.