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Specification Sheet

<u>SK - 20</u>

Plastic Optical Fiber

Super ESKA

High - Performance Plastic Optical Fiber

Eska[™]

MITSUBISHI RAYON CO., LTD. ESKA OPTICAL FIBER DIVISION

6-41 Kounan 1-Chome, Minato-ku, Tokyo, Japan

 Phone
 : + 81 - 3 - 5495 - 3060

 Facsimile
 : + 81 - 3 - 5495 - 3212

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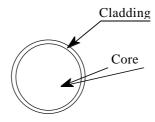
1.Scope

This specification covers basic requirements for the structure, optical and mechanical performances of SK-20.

2. Structure

Table1				SK - 20			
L	Specification						
Item		Unit	Min.	Тур.	Max.		
	Core Material		Polymetyl - Methacrylate Resin				
	Cladding Material	_	Fluorinated Polymer				
Optical Fiber	Core Refractive Index		1.49				
	Numerical Aperture		0.5				
	Refractive Index Profile	_	Step Index				
	Core Diameter	μm	456	486	516		
	Cladding Diameter	μm	470	500	530		
Approximate Weight		g / m	0.3				

Sectional View



3.Performance

Table2			SK - 20				
Item		Acceptance Criterion and / or [Test Condition]		Specification			
			Unit	Min.	Тур.	Max.	
Maximum	Storage and Operation Temperature	No Deterioration in Optical Properties*	°C	- 55		+ 70	
Rating	Operation Temperature under high humidity	No Deterioration in Optical Properties** [95 %RH]	°C	-		+ 60	
Optical Properties	Transmission Loss	650 nm Collimated Light] [Standard condition] [10 m - 1 m cutback]	dB/km	_		200	
Mechanical Characteristics	Minimum Bend Radius	Loss Increment =< 0.5 dB [Quarter bend]	mm	10			
	Tensile Strength	[Tensile Force at Yield Point] [JIS C 6861]	N	14			

	All tests are carried out under	temperature of 25°C unless	otherwise specified.
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* Attenuation change shall be within 10 % after 1,000 hours.

** Attenuation change shall be within 10 % after 1,000 hours, except that due to absorbed water .

The specification is subject to change without notice. The information contained herein is presented as a guide for the product selection. Please contact our business department for the issue of an official specification sheet.