

Specification Sheet

SK-30

High-Performance Plastic Optical Fiber

E s k a™

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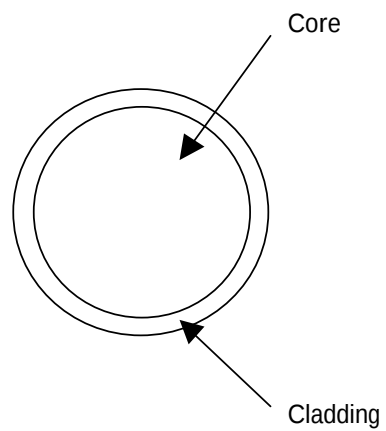
1. Scope

The specification covers basic requirements for the structure, optical and mechanical performances of SK-30

2. Structure

Table 1

		SK-30			
Item		Specification			
		Unit	Min.	Typ.	Max.
Optical Fiber 1	Core Material	-	Polymethyl-Methacrylate Resin		
	Cladding Material	-	Fluorinated Polymer		
	Core Refractive Index	-	1.49		
	Refractive Index Profile	-	Step Index		
	Numerical Aperture	-	0.5		
	Core Diameter	μm	690	735	780
	Cladding Diameter	μm	705	750	795
Approximate Weight		g/m	0.5		

Sectional View

3. Performances

Table 2

SK-30

Item		Acceptance Criterion and/or [Test Condition]	Specification			
			Unit	Min.	Typ.	Max.
Maximum Rating	Storage Temperature	No Physical Deterioration [in a Dry Atmosphere]		-55	-	+70
	Operation Temperature	No Deterioration in Optical Properties* [in a Dry Atmosphere]		-55	-	+70
		No Deterioration in Optical Properties** [under 95%RH condition]		-	-	+60
Optical Properties	Transmission Loss	[650nm Collimated Light] [Standard condition] [10m-1m cutback]	dB/km	-	-	150
Mechanical Characteristics	Minimum Bend Radius	Loss Increment 0.5dB [Quarter Bend]	mm	15	-	-
	Tensile Strength	[Tensile Force at Yield Point] [JIS C 6861]	N	32	-	-

All tests are carried out under temperature of 25 unless otherwise specified.

* 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.