

Specification Sheet

CK-120

High-Performance Plastic Optical Fiber

E s k a™

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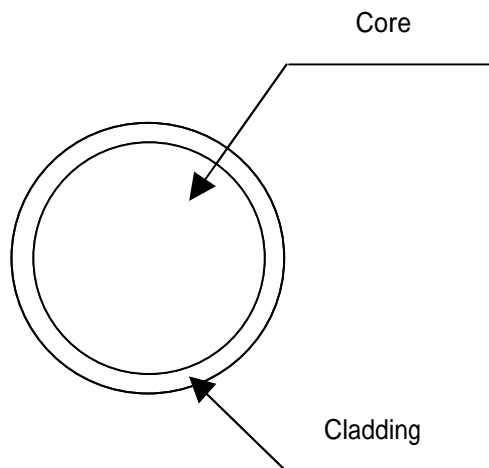
1. Scope

The specification covers basic requirements for the structure and optical performances of CK-120.

2. Structure

Table 1

		CK-120			
Item		Specification			
		Unit	Min.	Typ.	Max.
Optical Fiber	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	2,765	2,945	3,125
	Cladding Diameter	μm	2,820	3,000	3,180
Approximate Weight		g/m	9		

Sectional View

3. Performances

Table 2

		CK-120				
Item		Acceptance Criterion and/or [Test Condition]	Specification			
			Unit	Min.	Typ.	Max.
Maximum Rating	Storage Temperature	No Deterioration in Optical Properties		- 55	-	+ 70
	Operation Temperature	No Deterioration in Optical Properties* [in a Dry Atmosphere]		- 55	-	+ 70
		No Deterioration in Optical Properties** [95%RH]		-	-	+ 60
Optical Properties	Transmission Loss	[650nm Collimated Light] [Standard condition] [10m-1m cutback]	dB/km	-	-	200
Mechanical Characteristics	Minimum Bend Radius	Loss Increment 1.0dB [A Quarter Bend]	mm	150	-	-
	Tensile Strength	[Tensile Force at Yield Point] [JIS C 6861]	N	550	-	-

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.