Specification Sheet

CK-30

High-Performance Plastic Optical Fiber

E s k a™

MITSUBISHI RAYON CO.,LTD.

ESKA OPTICAL FIBER DIVISION

6-41 Konan 1-Chome, Minato-ku, Tokyo, JAPAN

Phone :+81-3-5495-3060 Facsimile:+81-3-5495-3212

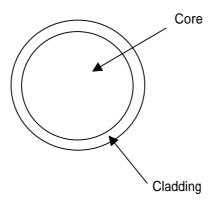
1. Scope

The specification covers basic requirements for the structure and optical performances of CK-30.

2. Structure

Table 1				CK-30			
ltem .		Specification					
		Unit	Min.	Тур.	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				CK-30				
Item		Acceptance Criterion and/or	Specification					
		[Test Condition]	Unit	Min.	Тур.	Max.		
Maximum Rating	Storage Temperature	No Physical Deterioration [in a Dry Atmouphere]		- 55	-	+ 70		
	Operation	No Deterioration in Optical Properties [in a Dry Atmouphere]		- 55	1	+ 70		
	Temperature	No Deterioration in Optical Properties (under 95%RH condition)		-	1	+ 60		
Optical Properties	Transmission Loss	[650nm Collimated Light] [Standard condition] [10m-1m cutback]	dB/km	ı	1	200		
Mechanical Characteristi cs	Minimum Bend Radius	Loss Increment 0.5dB [A Quarter Bend]	mm	15	-	-		
	Tensile Strength	Tensile Force at 5% Elongation; in Conformity to the 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.