Specification Sheet

CK-20

High-Performance Plastic Optical Fiber

Eska™

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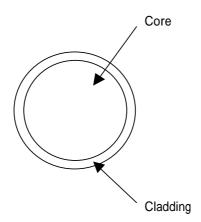
1 . Scope

The specification covers basic requirements for the structure and optical performances of CK-20.

2. Structure

Table 1				CK-20		
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	455	485	515	
	Cladding Diameter	μm	470	500	530	
Approximate Weight		g/m	0.2			

Sectional View



3. Performances

Table 2 CK-20 Acceptance Criterion Specification and/or Item [Test Condition] Unit Min. Тур. Max. Storage No Physical Deterioration - 55 + 70 Temperature [in a Dry Atmouphere] No Deterioration Maximum + 70 in Optical Properties* - 55 Rating [in a Dry Atmouphere] Operation Temperature No Deterioration in Optical Properties** + 60 [under 95%RH condition] [650nm Collimated Light] Optical **Transmission Loss** [Standard condition] dB/km 250 **Properties** [10m-1m cutback] Minimum Loss Increment 0.5dB 10 mm **Bend Radius** [A Quarter Bend] Mechanical Characteristics Tensile Force at 5% Tensile Strength Elongation; in Conformity Ν 14 to the JIS C 6861]

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

^{*} Attenuation change shall be within +/- 10% after 1,000 hours.

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