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# **Specification Sheet**

## <u>CK - 30</u>

Plastic Optical Fiber

ESKA

High - Performance Plastic Optical Fiber

Eska<sup>™</sup>

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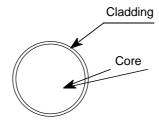
#### 1.Scope

This specification covers basic requirements for the structure, optical and mechanical performances of CK-30.

#### 2. Structure

Table1				СК - 30			
T.	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	693	738	783		
	Cladding Diameter	μm	705	750	795		
Approximate Weight		g / m	0.6				

Sectional View



#### 3.Performance

Table2			СК - 30				
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	15			
	Tensile Strength	[Tensile Force at Yield Point] [ JIS C 6861]	N	35			

	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.