

ESKA™ Plastic Optical Fiber: CK60

Manufactured by Mitsubishi Rayon Co., Ltd.

Marketed and sold by Mitsubishi International PolymerTrade Corporation

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Structure		
Core Material	Polymethyl Methacrylate Resin (PMMA)	
Cladding Material	Fluorinated Polymer	
Core Refractive Index	1.49	
Refractive Index Profile	Step Index	
Numerical Aperture	0.5	
	Unit	Typical
Core Diameter	μm	1,470
Overall Diameter	μm	1,500
Approximate Weight (g/m)	2.2	

Packaging	
Spool Length (m)	700
Net weight on spool (kg)	2.2
Spool Weight (kg)	0.66
Carton Size (mm)	286 X 286 X 130
Carton Weight (kg)	2.8
Master Carton	10 spools

Performance		Criteria for Acceptance and/or [Test Conditions]	Unit	Values
Storage and Operation Temperature		No deterioration in optical properties [in a dry atmosphere] *	°C	-55 ~ 70
Operating Temperature in a Moist Atmosphere		No deterioration in optical properties [under 95% RH] **	°C	Max.60
Optical Properties	Transmission Loss [650nm Collimated Light]	[Standard Condition] [10m-1m cutback]	dB/km	Max.200
Mechanical Characteristics	Minimum Bend Radius	Loss increment =< 0.5dB [quarter bend]	mm	Min.40
	Tensile Strength	Tensile force at yield point [JIS C 6861]	N	Min.145

CK60-C Cut Bristles		
Straight, one-meter long fibers with no memory curve, manufactured in the U.S. using ESKA™		
Diameter(μm)	Length (mm)	Number bristles per pack
500	1,000	700 +0/-3%

Applications: Lighting
CK grade fibers are typically used for lighting environments and illuminating applications.

Product Testing
The CK-Series of fibers is a tested and qualified, but has unspecified tolerances and typical values. The information contained in this document should, therefore, only be used as a guide.

Notes: Performance tested in conditions under 25°C unless otherwise indicated

* Attenuation increase shall be <10% after 1,000 hours

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The information contained herein is presented as a guide to product selection. It is subject to change without notice, and should not be regarded as a representation, warranty or guarantee with regard to the quality, characteristics or use of this product



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Please visit <http://www.fiberopticpof.com/> to locate a sales representative near you.