ESKA[™] High-performance Plastic Optical Fiber: SK60

Manufactured by Mitsubishi Chemical Corporation

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		

Applications: Sensing

SK grade fibers are typically used for sensing temperatures, speed, liquidity levels, and positioning. In addition, medical and general illumination are popular applications.

Performance		Criteria for Acceptance and/or [Test Conditions]	Unit	Values
Storage and Operation Temperature		No deterioration in optical properties [in a dry atmosphere]*		-55 ~ 70
Operating Ten Atmosphere	mperature in a Moist	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.150
Mechanical Character- istics	Minimum Bend Radius	Loss increment =< 0.5dB [quarter bend]	mm	Min.40
	Tensile Strength	Tensile force at yield point [JIS C 6861]	Ν	Min.145

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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