

62.5/100/125/250µm GGP Fiber

Product Information

* U.S. Pat No (s). Re 36,146. Licenses granted by 3M IPC

Issue Date: 2005/10

Product Name: GGPSMF

OPTICAL CHARACTERISTICS

Characteristics	Conditions	Specified Values		Unit
		A Grade	B Grade	
Attenuation Coefficient	850 nm	≤ 3.2	≤ 4.0	[dB/km]
	1300 nm	≤ 0.9	≤ 1.5	[dB/km]
Bandwidth	850 nm	≥ 200	≥ 200	[MHz·km]
	1300 nm	≥ 500	≥ 500	[MHz·km]
Numerical Aperture		0.275 ± 0.015		

BACKSCATTER CHARACTERISTICS

Attenuation Directional Uniformity		≤ 0.05	[dB/km]
Attenuation Uniformity		≤ 0.05	[dB]
Group Index of Refraction	850 nm	1.491	
	1300 nm	1.486	

PHYSICAL CHARACTERISTICS

Core Diameter		62.5 ± 2.5	[µm]
Core Non- circularity		≤ 6	[%]
Core / Cladding Concentricity Error		≤ 3.0	[µm]
Cladding Diameter		100 ± 3	[µm]
Cladding Non-Circularity		≤ 2.0	[%]
P-Coat Diameter		125 ± 2	[µm]
P-Coat Non-Circularity		≤ 2.0	[%]
P-Coat Concentricity Error		≤ 3.0	[µm]
Coating Diameter		245 ± 10	[µm]
Coating Non-Circularity		≤ 6.0	[%]
Coating Concentricity		≤ 12.5	[µm]
Fiber curl		≥ 2	[m]
Proof Test		100	[Kpsi]
Bend Induced Attenuation at 1300 nm (100 turns around a mandrel of 75 mm diameter)		≤ 1.0	[dB]
Coating Strip Force (Typical)		130	[g]
Dynamic fatigue constant (n _d)		>20	
Length (Typical)		1.0~8.8	[km]

ENVIRONMENTAL CHARACTERISTICS

Temperature Dependence at 850 nm and 1300 nm Induced Attenuation – 40°C to +85°C		≤ 0.5	[dB/km]
Watersoak Dependence at 850 nm and 1300 nm Induced Attenuation at 23°C for 30 days		≤ 0.5	[dB/km]
Damp Heat Dependence at 850 nm and 1300 nm Induced Attenuation at 85°C, 85%R.H., 30 days		≤ 0.5	[dB/km]

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