

50/100/125/250µm GGP Fiber

Product Information

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

Issue Date: 2005/10

Product Name: GGP500

Characteristics	Conditions	Specified Values		Unit
		A Grade	B Grade	
OPTICAL CHARACTERISTICS				
Attenuation Coefficient	850 nm	≤ 3.0	≤ 4.0	[dB/km]
	1300 nm	≤ 1.0	≤ 1.5	[dB/km]
Bandwidth	850 nm	≥ 500	≥ 400	[MHz·km]
	1300 nm	≥ 500	≥ 400	[MHz·km]
Numerical Aperture		0.200 ± 0.015		
BACKSCATTER CHARACTERISTICS				
Attenuation Directional Uniformity		≤ 0.05		[dB/km]
Attenuation Uniformity		≤ 0.05		[dB]
Group Index of Refraction	850 nm	1.481		
	1300 nm	1.476		
PHYSICAL CHARACTERISTICS				
Core Diameter		50.0 ± 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)		>30		
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]

Prime Optical Fiber Corporation
 No.11, Ke Jung Rd.
 Science-Based Industrial Park
 Chu-Nan, 350, Miao-Li County, Taiwan, R.O.C.
 Tel: 886-37-586999 Fax: 886-37-586899
 E-mail: sales@pofc.com

