



TYPICAL PRODUCT CHARACTERISTICS

Physical Properties

Glass content	> 80 % by weight
Density	1.9 to 2.2 gm/cc Diameter stability
+/- 0.05 mm Ovality	< 0.05 mm
Splices	None



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Mechanical Properties	Spec value	Test Method
Ultimate tensile strength	> 1.40 Gpa	ASTM D 3916
Tensile modulus	> 50 Gpa	ASTM D 3916
Min. bend radius	25 x D @ 25°C	
Heat stress tolerance (bend radius)	8 Days @ 100°C, 50 X D	
Coefficient of thermal expansion	5.2 X 10 ⁻⁶	ASTM D 696
Shrinkage	0%	
ASTM D 696 Flexural modulus	> 50 Gpa	ASTM D 790
Water absorption after 24 hrs	< 0.1 %	ASTM D 570

PRODUCT: IGFR - GREEN & WHITE

Glass yarns are manufactured using E-glass fiber with proprietary PU resin systems to produce an innovative, value added reinforcement solution with high degree of softness and strength. It has a special smooth, flexible coating which improves handling and eliminates dust and loose fiber generation during cable production even at very high speeds, leading to high productivity and ultimate cable strength. The soft fiber spread evenly on cable the core minimizes, thickness build-up. It comes in variety of coatings, offering good adhesion top materials like PE, PVC etc. it is available in long continuous lengths for enhanced productivity. It has a very high strength to weight ratio resulting in light weight cable with utmost ease of handling.

APPLICATION

The impregnated Glass Fiber Roving shall be used as flexible strength member (tension and compressive resistive member) for optical fiber cables in conjunction with the Solid Rigid FRP Rods in fibre optics cable design requiring peripheral reinforcement.

