



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.



Sl. No.	Parameter	Unit	Test Method	Requirements					
				Type A	Type B	Type C	Type D	Type E	Type F
1	Linear Density	Tex	ASTM D- 578	1700 ± 5%	800 ± 5%	630 ± 5%	126 0 ± 5%	1850 ± 5%	2425 ± 5%
2	Breaking Load	Newton	ASTM D- 885	≥ 950	≥ 440	≥ 350	≥ 600	≥ 950	≥ 1170
3	Modulus of Elasticity	N/mm2	ASTM D- 885	≥ 65000	≥ 65000	≥ 65000	≥ 65000	≥ 65000	≥ 65000
4	Load at Elongation at 0.5% Strain	Newton	ASTM D- 885	≥ 200	≥ 100	≥ 75	≥ 150	≥ 200	≥ 250
5	Elongation at Break	%	ASTM D- 885	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
	Loss on Ignition (Non Water Blocking Type)	%	ASTM D- 4963 - 94	3.5 ± 1	3.5 ± 1	3.5 ± 1	3.5 ± 1	3.5 ± 1	3.5 ± 1
6	Loss on Ignition (Water Blocking Type)	%	ASTM D- 4963 - 94	6 ± 2	6 ± 2	6 ± 2	6 ± 2	6 ± 2	6 ± 2
7	Water Absorption, 1 minute in Deionized Water	% Weight gain	ASTM D- 570	> 400	> 400	> 400	> 400	> 400	> 400