

TECHNICAL DATA SHEET



FRP – Fiber Reinforced Plastic Rod Reinforcement for Telecommunications Cables

Dielectric Central Strength Member provide tensile strength in cable designs for added protection during installation. Using a unique blend of e-glass and resin to produce a superior strength and efficient cable reinforcement.

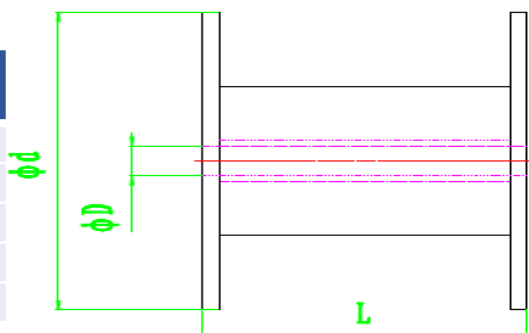
Available in sizes from 0.40mm to 4.00mm Diameters and continuous lengths of up to 50km

Mechanical Properties

Properties	UM	Typical Value	Test Method
Density	g/cm ³	1.9 – 2.2	ASTM D 885
Diameter Stability	mm	± 0.05	In-House
Ovality	mm	≤ 0.05	In-House
Tensile Strength	GPa	≥1.2	ASTM D 3916
Elongation at Break	%	<4.0	ASTM D 3916
Tensile Modulus	GPa	> 50	ASTM D 3916
Min Bend diameter at 25° C	mm	<40 x D	In-House
Heat Stress Test @ 80° C for 24 hours (Bend diameter)	-	50 x D	In-House
Flexural Modulus	GPa	> 50	ASTM D790
Coefficient of Thermal Expansion (50 – 120 ° C)	-	5.6 x 10 ⁻⁶	ASTM D696
Glass Content	80%	-	Glass Content

Drum Details

Flange (d) mm	Bore (D) mm	Width (L) mm
540	80±2	496
630	80±2	514
800	80±2	464
935	80±2	514
1025	80±2	674



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