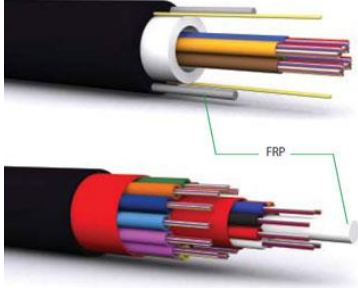




JRD Fibre Composite Private Limited

TECHNICAL DATA SHEET



Product Description:

The Telecommunication Grade Fibre Reinforced Plastic (FRP) Rod is produced from Glass Roving reinforced with thermoplastic resin, manufactured by a continuous drawing process (Pultrusion). It is central strength member of Optical Fibre Cable and provides tensile strength to the cable, protecting it during installation and its rigidity prevents cable buckling during the life of the cable. Our Product is **ISO 9001:2015 certified** and compliant to **RoHS Directive (2011/65/EU)** & **REACH** of the European Parliament and of the Council on the restriction of use of certain Hazardous Substances in Electrical and Electronic Equipments.

Physical Properties			
			Test method
Glass Content	80 ± 2.5%		(DIN EN ISO 1172)
Density	2.15 g/cm³	(0.08 lb/in³)	(DIN 53479)
Diameter Stability	± 0.05 mm	(± 0.002 in)	
Ovality	< 0.05 mm	(< 0.002 in)	
Splices	None		
Mechanical Properties			
			Test method
Ultimate Tensile Strength	1.50GPa	(2.18x10 ⁵ psi)	ASTM D3916 (DIN EN ISO 527-4)
Tensile Modulus	>50 GPa	(>7.25x10 ⁶ psi)	ASTM D3916 (DIN EN ISO 527-4)

Corporate Office : E - 307 First Floor, Sushant Shopping Arcade, Sushant Lok - I, Gurgaon-122002, (Haryana) India

Factory Address : Building No. 6, Survey No. 297/1/P, Sayali Village, Dadra and Nagar Haveli- 396240

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Mechanical Properties			
			Test method
Min bend radius	25 x D at 22 °C	25 x D at 72 °F	
Co-efficient of thermal expansion	$5.2 \times 10^{-6} / ^\circ\text{C}$	$2.9 \times 10^{-6} / ^\circ\text{F}$	ASTM D696 (DIN ISO 7991)
Flexural modulus	>50 GPa	7.25×10^6 psi	ASTM D790
Heat Stress tolerance (bend radius) 8 Days	50 x D at 100°C	50 x D at 212°F	
Elongation @ break	>2.5%	>2.5%	ASTM D3916 (DIN EN ISO 527-4)

Typical Properties		
Diameter of FRP		Weight
mm	Inch	Kg/Km
0.40	0.016	0.27
0.50	0.020	0.43
0.60	0.024	0.62
0.70	0.028	0.84
0.80	0.031	1.09
0.90	0.035	1.39
1.00	0.039	1.71
1.10	0.043	2.07
1.20	0.047	2.46
1.30	0.051	2.89
1.40	0.055	3.35
1.50	0.059	3.85
1.60	0.063	4.38
1.70	0.067	4.94
1.80	0.071	5.54
1.90	0.075	6.17
2.00	0.079	6.84
2.10	0.083	7.54
2.20	0.087	8.28
2.30	0.091	9.05
2.40	0.094	9.85
2.50	0.098	10.69
2.60	0.102	11.56
2.70	0.106	12.47

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Typical Properties

Diameter of FRP		Weight
mm	Inch	Kg/Km
2.80	0.110	13.41
2.90	0.114	14.38
3.00	0.118	15.39
3.10	0.122	16.43
3.20	0.126	17.51
3.30	0.130	18.62
3.40	0.134	19.77
3.50	0.138	20.95
3.60	0.142	22.16
3.70	0.146	23.41
3.80	0.150	24.69
3.90	0.154	26.01
4.00	0.157	27.36
4.10	0.161	28.75
4.20	0.165	30.16
4.30	0.169	31.62
4.40	0.173	33.11
4.50	0.177	34.63
4.60	0.181	36.18



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