

FRP(Fiber Glass Reinforce Plastic)

STRENGTH MEMBER FOR OPTICAL FIBER CABLE

FEATURES OF NON-METALLIC FRP STRENGTH MEMBER FOR FIBER OPTIC CABLES

Typical Properties:

- Insensitive to the lightning strike, suitable for the area with frequent lightning and rain.
- Free from the induction interference, can be laid and installed close to the power line and device.
- No harmful gas, which will affect the transmission of the optical fiber , will be given off from the corrosive metal.
- FRP strength member has a high strength and light weight.

Technical Data:

Items	Unit	Index/Value
Appearance		Colour well-distributed,none crack, none needle,feel smooth by hand
Diameter tolerance	%	±2
Density	g/cm ³	2.05~2.15
Tensile strength	Mpa	≥1450
Tensile modulus of elasticity	Gpa	≥50
Elongation at break	%	≤4
Flexural Strength	Mpa	≥1500
Flexural modulus	Gpa	≥50
Water-absorption	%	≤0.1
Coefficient of linear thermal expansion	1/℃	<8×10 ⁻⁶
Heat shrinkage	%	0
Minimum bending radius(40D,20±5℃)		No bur,cracks and break,feel smooth and straight as original
High temperature bending test (50D,100±1℃,120h)		No bur,cracks and break,feel smooth and straight as original
Low temperature bending test (50D,-40±1℃,120h)		No bur,cracks and break,feel smooth and straight as original
Twisting test(±360 ⁰ /m)		No-emulsification

Standard Delivery details:

- * Available diameter: 0.45~5.00mm (0.45; 0.70; 0.90; 1.00; 1.20; 1.30; 1.40; 1.50; 1.60; 1.70; 1.80; 2.00; 2.10; 2.25;2.30; 2.40; 2.50; 2.60; 2.65; 2.70; 2.80; 2.90; 3.00; 3.20; 3.50; 3.70; 4.00; 4.50; 5.00;)
- * Diameter(0.45~3.00mm) standard delivery length≥25km
- * Diameter(3.00~5.00mm) standard delivery length≤15km
- * Joints free
- * FRP products are supplied with reels or drums made of wood.

Application: FRP reinforced strength member used for optical fiber cable.

Other specifications can be designed according to your special request.