

EPOXY FRP ROD For High Voltage Composite Insulators



Model:FRP ROD

FRP Fiberglass stake is a composite material with unique characteristics making it useful in a wide variety of applications. fiberglass rods are composed of polyester resin and fiberglass. It contains above 65% fiberglass and 25% resin, and some other material for special use (like UV-Stability).

Product Introduction

Fiberglass stake is manufactured by pultrusion process, so it is possible to vary the resin system and enhance the glass content properties in order to meet a wide range of demanding requirements for specific designs and applications. This flexibility with the resin mix makes pultrusion material easier to work with, longer lasting and a safer product for the end user than other materials. As fiberglass material is lightweight and strong, it is much more efficient than steel, aluminum or structural timber. Fiberglass is up to 75% lighter than steel but is as strong.

Product Parameter (Specification)

No.	Properties	Unit	Value
1	Density (20degree+/-2degree)	g/cm ³	>=2.0
2	Water absorption rate (20degree+/-2degree,24h)	%	<=0.05
3	Tensile strength	MPa	>=1420
4	Flexural strength	MPa	>=900
5	Dye penetration test	min	>=15
6	Water diffusion test(1%NaCl,Boiling 100h ,12kv,1min)	uA	<=50
7	Shear strength along laminals	MPa	>=50
8	A.C. breakdown voltage	KV/cm	>=50
9	Hot flexural strength	MPa/150degree	>=300
10	Stress corrosion(1mol/1HNO ₃ ,316Mpa stress)	h	>200
11	Total current impulse voltage	KV/cm	>=95

Product Feature And Application

Following are the features of fiberglass stake:

1. Corrosion resistant
2. Non-conductive (thermally & electrically)
3. Lightweight
4. High-strength
5. Non-magnetic electromagnetic transparency
6. Dimensional stability
7. Long life cycle
8. Lower long-term cost
9. Low maintenance

Product etails

