



sales@composite-insulator.com

<http://www.composite-insulator.com>

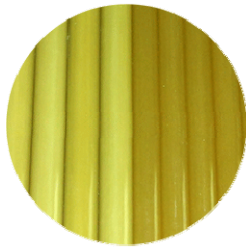
Chapter 3

Composite Insulator Material

3.2.1 ECR fiber glass reinforced core rod

By Orient Power

ECR Fiber Glass Reinforced Core Rod



Orient Power

sales@composite-insulator.com

<http://www.composite-insulator.com>

Brief introduction:

- ECR means electrochemical corrosion resistant glass.
- The ECR fiber glass core rod is an important part of the composite insulator.
- The core rod is the insulating part of the composite insulator, which can guarantee the mechanical strength of the composite insulator.

Manufacturing process:

- ECR glass filaments impregnated with epoxy resin
- Glass fibers and resin shall be optimized in the FRP rod
- The FRP rod shall be manufactured through pultrusion process

Properties:

- Glass fibers shall be boron free electrically corrosion resistant (ECR) glass fiber or boron free E-Glass
- Exhibit both high electrical integrity and high resistance to acid corrosion
- The matrix of the FRP rod shall be Hydrolysis resistant
- High temperature vitreous transition
- High mechanical strength
- Excellent dielectric strength
- Acid resistance and can be used in high service temperatures