

# Fiber Reinforced Polymer Insulator Rod

These fiber reinforced polymer rods are produced via vacuum pressure injection of epoxy and glass fiber. The resulting composite insulator rods are lightweight and offer exceptional tensile strength, exceeding 1360Mpa.



## Product Overview

### High-Performance Electrical Insulation

These Fiber Reinforced Polymer (FRP) insulator rods are engineered for demanding high-voltage electrical applications. Utilizing advanced vacuum injection technology, the rods are manufactured without mold release agents to ensure superior material integrity. They are field-proven in extreme environments, having successfully supported 1000kV AC and  $\pm 1100$ kV DC transmission lines.

## Technical Specifications

### Available Diameters

- 4.2mm
- 4.4mm
- 4.5mm
- 5.0mm
- 5.5mm
- 6.0mm
- 7.0mm
- 7.62mm
- 8.0mm
- 8.8mm
- 9.0mm
- 120mm
- 180mm
- 220mm

<b>Voltage Application Range</b>	1000kV AC, $\pm 1100$ kV DC
<b>Manufacturing Process</b>	Vacuum injection technology without mold release agents

## Certifications & Performance

### Stress Corrosion Test

**72300 hours**

Duration

### Compliance & Testing

KEMA Type Tested • ECR Rod Standard

<b>Patents</b>	ZL200620042850.1
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