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Chapter 4

Composite Insulator Manufacturing Process

4.6 Compression molding Vulcanization Process

By Orient Power

Compression molding Vulcanization Process



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When manufacturing the polymer insulator, two common ways can be used when vulcanizing:

- ✓ Compression molding vulcanization process
- ✓ Injection molding vulcanization process

What products are suitable for compression molding way?

Since compression moulding vulcanization process is not good on the positioning of the reinforced fiber glass core rod, and especially when the insulator is too long, it is easy to be off center. Normally compression molding vulcanization process is suitable for distribution composite insulator which is under 33kv lines.

When the batch quantity is not much, compression molding way can decrease the production cost, and then lower the price, since the mould cost is lower than injection mould.

What is compression molding vulcanization process?

Compression molding is the way to make the silicone rubber compressed on the reinforced fiberglass core rod. A chemical change occurs when the silicone rubber are placed in the mold for more than 10 minutes and under a temperature above 100 degree centigrade.

Advantages of compression molding vulcanization process:

- ✓ Easy mould assembly
- ✓ Quicker warming up
- ✓ Low cost when batch quantity not much
- ✓ Low cost of composite insulator mould