



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

Chapter 4

Composite Insulator Manufacturing Process

4.2 Silicone Rubber Manufacturing Process

By Orient Power

Silicone Rubber Manufacturing Process



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Silicone rubber manufacturing process of composite insulator is a very important, good silicone rubber decides the good quality of a polymeric composite insulator. Silicone rubber decide insulator electrical performance and anti-climate ability.

Silicone rubber raw material:

- Gum
- White carbon black
- Aluminium hydroxide

Mixing of silicone rubber:

Mixing silicone rubber process is to put gum to the double roller rubber mixing machine or airtight kneading machine and then gradually add the white carbon black, aluminium hydroxide and other additives, the mixing should repeatedly refined mix and then become synthetic rubber.

Silicone rubber rolling:

Put a piece of silicone rubber on the rolling machine, and make the air out, several times of rolling, the silicone rubber will become the silicone rubber which can be vulcanized.

Silicone rubber testing:

- Tensile strength test
- Tracking and erosion test
- Elasticity
- Hardness test