

SQUARE® SSR1501-45A/B

Silicone

Shenzhen SQUARE Silicone Co., Ltd.

Message:

Two-part addition type solid silicone material for insulators

Product description

This product is one kind of 2-part solid silicone rubber, suitable for making cold shrink cable accessory by compression molding or injection molding, catalyzed by platinum.

Key Features

Outstanding anti-ageing and weathering resistance

High rebound and low tension set

High tear strength

High elongation

Excellent thermal and cold stability (-60°C to 250°C)

Excellent electric insulating property

Applications

Medium and high voltage resistant insulator. Cold shrink cable accessories (terminals, connectors and bushing) lightning arrester etc.

| General Information | | | |
|---------------------------------|-----------------------------|------|-------------|
| Features | Insulation | | |
| | Good tear strength | | |
| | Good weather resistance | | |
| | Thermal stability, good | | |
| | Extended tensile rate | | |
| Uses | Bushings | | |
| | Wire and cable applications | | |
| | High voltage insulation | | |
| | Connector | | |
| | Medium voltage insulation | | |
| Appearance | Translucent | | |
| Processing Method | Compression molding | | |
| | Injection molding | | |
| Hardness | Nominal Value | | Test Method |
| Durometer Hardness (Shore A) | 45 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Set ¹ | | | ASTM D412 |
| -- | 2 | % | ASTM D412 |
| 300% strain, 120°C ² | 6 | % | ASTM D412 |
| Tensile Strength | 9.00 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 800 | % | ASTM D412 |
| Tear Strength ³ | 35.0 | kN/m | ASTM D624 |

| Electrical | Nominal Value | Unit | Test Method |
|------------------------|---------------|---------|-------------|
| Volume Resistivity | 1.0E+15 | ohms·cm | IEC 60093 |
| Dielectric Strength | 26 | kV/mm | IEC 60243-1 |
| Thermoset | Nominal Value | Unit | |
| Shelf Life | 100 | wk | |
| Post Cure Time (200°C) | 4.0 | hr | |
| Uncured Properties | Nominal Value | Unit | |
| Curing Time (140°C) | 0.17 | hr | |
| NOTE | | | |
| 1. | C mould | | |
| 2. | 15hrs | | |
| 3. | B mould | | |

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