

SQUARE® LIM1550-35A/B

Silicone Rubber, LSR
Shenzhen SQUARE Silicone Co., Ltd.

Message:

Liquid silicone rubber material for composite insulator

Product Description

2-part catalyzed by platinum, high voltage resistant and low viscosity liquid silicone rubber, which is particularly suitable for producing composite insulator, mixing ratio of parts A:B=1:1, The appearance of A is transparent and B is grey.

Key Features

Low viscosity, be apt to injection molding

Long pot life

High dielectric strength

Excellent tracking resistance

Excellent surface hydrophobic property

At the temperature of 20°C and in the condition of air-proof, the shelf life is 5 days after mixing A and B, the shelf life will decrease with the increasing of the temperature.

Applications

Composite insulator

| General Information | | | |
|------------------------------|--------------------------------|------|-------------|
| Features | Hydrophobic | | |
| | Low viscosity | | |
| | Track Resistance | | |
| Uses | Insulating material | | |
| Processing Method | Liquid Injection Molding (LIM) | | |
| Physical | Nominal Value | Unit | Test Method |
| Molding Shrinkage - Flow | 2.2 | % | JIS K6301 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 35 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Set ¹ | 1 | % | ASTM D412 |
| Tensile Strength | 58.0 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 380 | % | ASTM D412 |
| Tear Strength ² | 12.5 | kN/m | ASTM D624 |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components | | | |
| Component a | Mixing ratio by weight: 1.0 | | |
| Component B | Mixing ratio by weight: 1.0 | | |
| Pot Life (20°C) | 7200 | min | |
| Shelf Life | 100 | wk | |
| Uncured Properties | Nominal Value | Unit | Test Method |
| Color | | | |
| -- ³ | Clear/Transparent | | |

| -- 4 | Grey | | |
|--------------------|---------------|------|-------------|
| Viscosity | 55 | Pa·s | DIN 53019 |
| Cured Properties | Nominal Value | Unit | Test Method |
| Rebound Resilience | 70 | % | |
| NOTE | | | |
| 1. | C mould | | |
| 2. | B mould | | |
| 3. | Part A | | |
| 4. | Part B | | |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
 Phone: +86 13424755533
 Email: sales@su-jiao.com
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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