

Silopren® LSR 3486/50

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren LSR 3486/50 is a two-component liquid silicone rubber for injection molding processes. This material is an excellent candidate to consider for the manufacture of elastomeric articles requiring self-lubricating properties. The self-lubricating effect is achieved by a fluid which exudes out of the vulcanizate over an extended period of time. It typically starts between a few hours and one day after vulcanization. Silopren LSR 3486/50 liquid silicone rubber shows a low compression set after vulcanization without post-curing.

Key Features and Benefits

Vulcanizates consisting of Silopren LSR 3486/50 liquid silicone rubber are typically distinguished by the following properties:

low compression set without post-cure

self-lubricating properties

low viscosity

fast cure

high thermal stability

outstanding resistance to aging

easy to color

Potential Applications

Because of the outstanding properties, Silopren LSR 3486/50 liquid silicone rubber is an excellent candidate to consider for use in wire harness applications for the following elastomeric articles:

cable seals

grommets

gaskets

plug seals

| General Information | | | |
|------------------------------|------------------------|-------------------|-------------|
| Features | Fast Cure | | |
| | Fast Molding Cycle | | |
| | Good Colorability | | |
| | Good Mold Release | | |
| | Good Thermal Stability | | |
| | Low Compression Set | | |
| | Low Viscosity | | |
| | Self Lubricating | | |
| Uses | Gaskets | | |
| | Grommets | | |
| | Seals | | |
| Forms | Liquid | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.12 | g/cm ³ | DIN 53479 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 51 | | DIN 53505 |
| Elastomers | Nominal Value | Unit | Test Method |

| | | | |
|--------------------------------|--------------------------|------|-------------|
| Tensile Strength | 8.10 | MPa | DIN 53504 |
| Tensile Elongation (Break) | 540 | % | DIN 53504 |
| Tear Strength ¹ | 44.0 | kN/m | ASTM D624 |
| Compression Set (175°C, 22 hr) | 25 | % | ISO 815 |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components | | | |
| Part A | Mix Ratio by Weight: 1.0 | | |
| Part B | Mix Ratio by Weight: 1.0 | | |
| Shelf Life (< 27°C) | 77 | wk | |
| Additional Information | Nominal Value | Unit | Test Method |
| Vulcanization (175°C) | 10.0 | min | |
| Fluid Content | | | |
| -- ² | 4.0 | % | |
| -- ³ | 4.0 | % | |
| Uncured Properties | Nominal Value | Unit | Test Method |
| Color | | | |
| -- ⁴ | White | | |
| -- ⁵ | White | | |
| Viscosity | | | DIN 53018 |
| 20°C ⁶ | 360 | Pa·s | |
| 20°C ⁷ | 480 | Pa·s | |
| Pot Life (20°C) | 4300 | min | |
| NOTE | | | |
| 1. | Die B | | |
| 2. | Part B | | |
| 3. | Part A | | |
| 4. | Part B | | |
| 5. | Part A | | |
| 6. | Part B | | |
| 7. | Part A | | |

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