

Momentive Performance Materials Silopren®, LSR 3285/50 Liquid Silicone Rubber - Self-Lubricating / Standard

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Rubber

Material Notes:

This LSR elastomer is a self-lubricating, standard, two-component, platinum (addition/heat) curable, and pumpable silicone elastomer that can be molded and cured with very fast cycle times, at elevated temperatures. The molding process allows for complex part geometry and exact dimensions. LSR elastomers are generally suitable for short cycle time injection and full automatic flash-less processing. Color pastes are available to pigmenting addition cure productions of LSR's. All LSR grades are platinum cured materials which are mixed in a 1:1 ratio by weight. Industries and Applications: The Momentive portfolio of products is used for a wide variety of applications in the Automotive, Aviation and Aerospace, Consumer Goods, Consumer Electronics, Healthcare and Energy Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-Silopren-LSR-328550-Liquid-Silicone-Rubber-Self-Lubricating-Standard.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|---|
| Specific Gravity | 1.12 g/cc | 1.12 g/cc | |
| Linear Mold Shrinkage | 0.027 cm/cm | 0.027 in/in | vulcanized 10 sec at 200°C; Without post-cure |
| | 0.035 cm/cm | 0.035 in/in | vulcanized 10 sec at 200°C then post-cured |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|----------|------------|
| Hardness, Shore A | 52 | 52 | |
| Tensile Strength | 9.00 MPa | 1310 psi | |
| Elongation at Break | 500 % | 500 % | |
| Tear Strength | 40.0 kN/m | 228 pli | Die B |
| Compression Set | 25 % | 25 % | Post cured |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|--------------------------------|
| Transmission, Visible | 20 % | 20 % | translucent; thickness unknown |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------|----------------|---|
| Nozzle Temperature | 20.0 °C | 68.0 °F | cool nozzle and cylinder to prevent premature vulcanization |
| Mold Temperature | 140 - 230 °C | 284 - 446 °F | short vulcanization time required (a few seconds) |
| Injection Pressure | 5.00 - 15.0 MPa | 725 - 2180 psi | depends on feed channel |

| Processing Properties | MetricPa | English | Comments |
|-----------------------|----------|---------|----------|
|-----------------------|----------|---------|----------|

| Descriptive Properties | Value | Comments |
|------------------------|-------------|----------|
| Appearance | Translucent | |

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