

## Momentive Performance Materials Silopren®, LSR 2050 Liquid Silicon Rubber - General Purpose

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

### Material Notes:

This LSR elastomer is a general purpose, 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-2050-Liquid-Silicon-Rubber-General-Purpose.php](http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-Silopren-LSR-2050-Liquid-Silicon-Rubber-General-Purpose.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	51	51	
Tensile Strength	10.0 MPa	1450 psi	
Elongation at Break	600 %	600 %	
Tear Strength	35.0 kN/m	200 pli	Die B
Compression Set	25 %	25 %	Post cured

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	transparent; thickness unknown

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	FDA Indirect food contact - Rubber articles intended for repeated use -

Compliance Properties	Metric	English	FDA Reg 21CFR177.2600 Comments
USP Class VI	Yes	Yes	USP Class VI methods: Intramuscular implantation, intracutaneous injection, & systematic injection

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

Descriptive Properties	Value	Comments
Appearance	Transparent	
BfR	product is compositionally compliant	Recommendation XV Silicones; post cured (4h/200Â°C)
European Pharmacopeia	compliant	Eur. Pharmacopeia VI.1.3.2.
ISO10993	yes	7 ISO 10993 tests applicable to "wet" chemicals
Water Regulations	compliant	KTW, WRAS, W270

## Contact Songhan Plastic Technology Co.,Ltd.

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