

Momentive Performance Materials Silopren[®],ç LIM 6040 Liquid Silicone Rubber - Fast Cure / High Tear

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. LIM 6040 is a fast cure, high tear grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-Silopren-LIM-6040-Liquid-Silicone-Rubber-Fast-Cure-High-Tear.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	42	42	
Tensile Strength	9.00 MPa	1310 psi	
Elongation at Break	600 %	600 %	
Tear Strength	39.0 kN/m	223 pli	Die B

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 - FDA Reg 21CFR177.2600

Compliance Properties	Metric	English	Comments
			USP Class VI methods: Intramuscular injection, 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)
ISO10993	yes	7 ISO 10993 tests applicable to "wet" chemicals

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