

Momentive Performance Materials Silopren®, LSR 3186/50 Liquid Silicone Rubber - Self-Lubricating / Low Compression Set

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

Material Notes:

This LSR elastomer is a self-lubricating, low compression set, 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-318650-Liquid-Silicone-Rubber-Self-Lubricating-Low-Compression-Set.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	9.00 MPa	1310 psi	
Elongation at Break	600 %	600 %	
Tear Strength	35.0 kN/m	200 pli	Die B
Compression Set	25 %	25 %	Non 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
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Descriptive Properties	Value	Comments
Appearance	Translucent	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China