

Professional LSR Manufacturer



Shenzhen Square Silicone Co., Ltd

SQUARE® SILICONE LIM1538-40A/B

Conductive Liquid silicone rubber

Product Description

SQUARE® LIM1538-40A/B is a two-component, platinum curable electrically conductive liquid silicone rubber for injection molding process. The vulcanized rubber is noted for the good mechanical properties as well as for the stable electrical properties.

Key Feature

- Electrically conductive
- Good mechanical and electrical properties

Application

SQUARE® LIM1538-40A/B is suitable for making molded parts like high voltage stress cones, cable connector, high voltage plugs and joint block.

Process

Component A and B are delivered ready to use in 20 kilogram pails and 200 kilogram drums. They can be pumped by means of standard metering equipment from these drums and mixing in a static mixer straight into the heated mold. The mixing ratio is 1:1.

At room temperature (23°C), mixtures of A and B components have a pot life of at least three days. Please clean the pipe and machine when to halt production for long time

Storage

The date of manufacture of each batch is shown on the product label.

Silicone rubber can be storage in room temperature with dry an ventilated environment. Especially in warm climate, storage of the material in an air-conditioned warehouse with cool (below 25°C) and dry conditions is mandatory. The storage period is twelve month.

Storage beyond the date does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Material safety data sheets are available upon request from Shenzhen Square silicone.

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Product Data

Typical properties of the uncured component

	Inspection method	Unit	A Component	B Component
Colour			Black	Black
Viscosity in Y=10 s ⁻¹ /25°C	DIN 53018	Pa.s	400-800	400-800

Typical properties of the cured rubber:

Mixing ratio of component A:B=1:1 by weight.

Compress cured: 10mins/175°C+ post cured: 4hrs*200

			Compress cured	Post cured: 4h/200°C
Specific Density	D792	g/cm ³	-	1.08-1.15
Hardness Shore A	D2240	°A	-	38-44
Tensile strength	D412	MPa	-	≥6.0
Elongation at break	D412	%	-	≥600
Tear strength	D624 B	kN/m	-	≥27
Linear shrinkage	JISK 6301		-	2.3%~3.2%
Tension Set	D412		-	≤12
Rebound		%	-	≥45
Volume resistivity	IEC60093	Ω ·cm	-	≤50

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