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Shenzhen Square Silicone Co., Ltd

SQUARE® SILICONE LIM1530-35A/B

Conductive Liquid silicone rubber

Product Description

SQUARE® LIM1530-35A/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

- Good mechanical and electrical properties
- Two-component system with mixing ratio of 1:1

Application

SQUARE® LIM1530-35A/B is suitable for making molded parts like electrodes, stress cones, cable connector, and joint block with the voltage below 35kV.

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 general characteristics	Inspection method	Unit	Value
Uncured			
Colour			A:Black; B: Black
Viscosity of Component A (shear rate 10 s ⁻¹)	DIN53019	mPa.s	6.0×10 ⁵
Viscosity of Component B (shear rate 10 s ⁻¹)	DIN53019	mPa.s	7.0×10 ⁵
TC10 and TC 90 at 115 °C	s	%	101s/141s
Cured			
Specific Density	D792	g/cm ³	1.109
Hardness Shore A	D2240	°A	35-45
Tensile strength	D412	MPa	≥ 5.5
Elongation at break	D412	%	≥ 600
Tear strength	D624B	kN/m	≥ 20
Tension Set	D412		2.6
Volume resistivity	IEC60093	Ω · cm	≤ 50
Compression set 175°C/22h	ISO 815-1 type A method A	%	30

-Silicone rubber was cured under 140 °C for 10 minutes

-These figures are only intended as a guide and should not be used in preparing specifications.

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