

SQUARE® LIM1520-45A/B

Silicone Rubber, LSR
Shenzhen SQUARE Silicone Co., Ltd.

Message:

Liquid silicone rubber material of low viscosity and pressure injection molding

Product Description
2-part liquid silicone rubber, which is suitable for injection molding with tracking resistance 1A 4.5 grade, mixing ratio of parts A:B=1:1, withstanding middle and high voltage, catalyzed by platinum. The appearance of A is transparent and B is grey.

Key Features
Injection molding
Low viscosity
High rebound
Rapid vulcanization
Excellent tracking resistance

At the temperature of 20°C and in the condition of air-proof, the shelf life is 5 days after mixing A and B, the shelf life will decrease with the increasing of the temperature.

Applications
Bushing

General Information			
Features	Low viscosity		
	Fast curing		
	Track Resistance		
Uses	Bushing		
Processing Method	Liquid Injection Molding (LIM)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	6.60	MPa	ASTM D412
Tensile Elongation (Break)	440	%	ASTM D412
Tear Strength ¹	15.3	kN/m	ASTM D624
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	26	kV/mm	IEC 60243-1
Dielectric Constant (50 Hz)	2.80		IEC 60250
Dissipation Factor (50 Hz)	1.6E-3		IEC 60250
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Component a	Mixing ratio by weight: 1.0		
Component B	Mixing ratio by weight: 1.0		
Pot Life (20°C)	7200	min	

Shelf Life	52	wk	
Post Cure Time (200°C)	4.0	hr	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ²	Clear/Transparent		
-- ³	Grey		
Solids Content	100	%	
Viscosity	55	Pa·s	DIN 53019
Curing Time (140°C)	0.17	hr	
Cured Properties	Nominal Value	Unit	Test Method
Tracking Resistance	1A4.5		IEC 60587
NOTE			
1.	B mould		
2.	Part A		
3.	Part B		

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