

Silopren® Electro 242-0

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren® Electro 242-0 is a two-component liquid silicone rubber with a very high flowability especially developed for the economical production of large articles, like hollow core insulators or cable accessories. Due to its low viscosity Silopren® Electro 242-0 can be used in various casting processes if an appropriate metering and mixing equipment is available.

Key Features and Benefits

Vulcanisates consisting of Silopren® Electro 242-0 are distinguished by the following properties:

- outstanding ageing behaviour and weather resistance
- fast hydrophobicity transfer and hydrophobicity recovery
- rapid vulcanisation
- excellent dielectric behaviour over a wide range of temperatures
- very good tracking and arc resistance
- excellent flowability
- high stability and flexibility at low temperatures
- excellent stability to ozone and ultraviolet light
- not readily combustible, does not melt or drip
- easy pigmentable with LSR Color Pastes

Potential Applications

Because of the outstanding properties Silopren® Electro 242-0 is particularly suitable for the following elastomeric articles: hollow core insulators, high voltage plugs, cable connectors, fittings and terminals, suspension and long rod insulators, post line and pin insulators and surge arresters.

General Information			
Features	Arc Resistant		
	Fast Cure		
	Good Colorability		
	Good Stability		
	Good UV Resistance		
	Good Weather Resistance		
	High Flow		
	Low Temperature Flexibility		
	Low Viscosity		
	Ozone Resistant		
	Tracking Resistant		
Uses	Connectors		
	Electrical/Electronic Applications		
	Fittings		
	Insulation		
	Plugs		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	DIN 53479

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	30		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	5.00	MPa	DIN 53504
Tensile Elongation (Break)	350	%	DIN 53504
Tear Strength ¹	20.0	kN/m	ASTM D624
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+15	ohms·cm	DIN 53482
Electric Strength	25	kV/mm	DIN 53481
Dielectric Constant (50 Hz)	2.70		DIN 53483
Dissipation Factor (50 Hz)	1.0E-3		DIN 53483
Arc Resistance	> 300	sec	DIN VDE 0441
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Additional Information	Nominal Value	Unit	Test Method
Vulcanization (175°C)	10.0	min	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ²	Translucent		
-- ³	Translucent		
Viscosity			DIN 53018
20°C ⁴	30	Pa·s	
20°C ⁵	30	Pa·s	
Pot Life (20°C)	4300	min	
NOTE			
1.	Die B		
2.	Part B		
3.	Part A		
4.	Part B		
5.	Part A		

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