

Silopren® Electro 242-3

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren Electro 242-3 TP 3751 is a two-component liquid silicone rubber for injection moulding processes. This silicone rubber is particularly developed for the manufacturing of housing and weather sheds for all kinds of insulators

Key Features and Benefits

Vulcanisates consisting of Silopren Electro 242-3 TP 3751 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

very good 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 Colour Pastes

Potential Applications

Because of the outstanding properties Silopren Electro 242-3 TP 3751 is particularly suitable for the following elastomeric articles: suspension and long rod insulators, post line and pin insulators, surge arresters, hollow core insulators, high voltage plugs, cable connectors, fittings and terminals s.o.

General Information			
Features	Arc Resistant		
	Fast Cure		
	Good Colorability		
	Good Stability		
	Good UV Resistance		
	Good Weather Resistance		
	High Flow		
	Low Temperature Flexibility		
	Ozone Resistant		
	Tracking Resistant		
Uses	Connectors		
	Electrical/Electronic Applications		
	Fittings		
	Insulation		
	Plugs		
Forms	Liquid		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	DIN 53479
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore A)	40		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	9.00	MPa	DIN 53504
Tensile Elongation (Break)	770	%	DIN 53504
Tear Strength ¹	40.0	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	Colorless		
-- ³	Colorless		
Viscosity			DIN 53018
20°C ⁴	210	Pa·s	
20°C ⁵	230	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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