Silopren® Electro 242-1

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren Electro 242-1 TP 3717 is a two-component liquid silicone rubber for injection molding 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 242-1 TP 3717 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 242-1 TP 3717 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	1.06	g/cm³	DIN 53479
Hardness	**Nominal Value**	**Unit**	**Test Method**

Durometer Hardness (Shore A)	32		DIN 53505
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	5.50	MPa	DIN 53504
Tensile Elongation (Break)	620	%	DIN 53504
Tear Strength [1]	16.0	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]	50	Pa·s	
20°C [5]	60	Pa·s	
Pot Life (20°C)	4300	min	
NOTE			
1.	Die B		
2.	Part B		
3.	Part A		
4.	Part B		
5.	Part A		

Recommended distributors for this material

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