

Silopren® Matrix 70

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

Silopren Matrix 70 and 80 two-component liquid silicone rubber for injection molding processes contain polymeric fibers, which help reinforce molded articles while maintaining LSR's excellent processing properties.

Key Features and Typical Benefits

Vulcanizates consisting of Silopren Matrix LSR are distinguished by the following properties:

- High thermal stability
- Excellent stability and flexibility at low temperatures
- Good rubber-like properties
- High modulus
- High stability to ozone and ultraviolet light
- Outstanding resistance to aging
- Excellent dielectric behavior over a wide range of temperatures
- Not readily combustible, does not melt or drip
- Easily pigmentable with LSR color pastes

Potential Applications

Because of its outstanding properties, Silopren Matrix LSR is an excellent candidate to consider for use in the following elastomeric articles:

- Membranes
- Pressure hoses
- Exhaust hangers
- Watchbands
- Belts

General Information			
Features	Fast Cure		
	Fast Molding Cycle		
	Good Colorability		
	Good Mold Release		
	Good Processability		
	Good Stability		
	Good Thermal Stability		
	Good UV Resistance		
	Low Temperature Flexibility		
	Ozone Resistant		
Uses	Belts/Belt Repair		
	Hose		
	Membranes		
Forms	Liquid		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	DIN 53479
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore A)	70		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (50% Strain)	4.40	MPa	DIN 53504
Tensile Strength	7.80	MPa	DIN 53504
Tensile Elongation (Break)	250	%	DIN 53504
Tear Strength ¹	44.3	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Post Cure Time (200°C)	4.0	hr	
Uncured Properties	Nominal Value	Unit	
Color			
-- ²	Translucent		
-- ³	Translucent		
Pot Life (20°C)	4300	min	
NOTE			
1.	Die B		
2.	Part B		
3.	Part A		

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