

# Silopren® LSR 2740

Silicone Rubber, LSR

Momentive Performance Materials Inc.

## Message:

Silopren LSR 2740 TP 3783 is a two-component liquid silicone rubber for injection molding, which offers primer-less adhesion to a wide range of substrates including metals and engineering plastics, but without adhesion to the mold. Full bond strength is generally reached after a short post cure (e.g. one hour at 100 degrees Celsius) or by longer storage at room temperature. This makes Silopren LSR 2740 liquid silicone rubber a good option to consider for cost-efficient manufacturing of high part-quantities in integrated processes, such as multi-component injection molding or insert-molding.

### Key Features and Benefits

Primer-less adhesion to many substrates

No special mold treatment needed (final adhesion builds up with time)

High temperature stability

Excellent stability and flexibility at low temperatures

Favorable aging behavior and weathering resistance

Good dielectric and mechanical properties

Easy to pigment with LSR color-pastes

General Information			
Features	Good Adhesion		
	Good Colorability		
	Good Stability		
	Good Thermal Stability		
	Good Weather Resistance		
	Low Temperature Flexibility		
	Vibration Damping		
Uses	Membranes		
	Seals		
Agency Ratings	BfR Food Contact, Unspecified Rating		
	FDA 21 CFR 177.2600		
	ISO 10993		
	USP Class VI		
Forms	Liquid		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm <sup>3</sup>	DIN 53479
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	38		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	9.30	MPa	DIN 53504
Tensile Elongation (Break)	700	%	DIN 53504
Tear Strength <sup>1</sup>	20.0	kN/m	ASTM D624

Compression Set			ISO 815
120°C, 22 hr	15	%	
150°C, 22 hr	25	%	
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			
-- <sup>2</sup>	Translucent		
-- <sup>3</sup>	Translucent		
Viscosity			DIN 53018
20°C <sup>4</sup>	610	Pa·s	
20°C <sup>5</sup>	670	Pa·s	
Pot Life (20°C)	4300	min	
NOTE			
1.	Die B		
2.	Part B		
3.	Part A		
4.	Part A		
5.	Part B		

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#### Recommended distributors for this material

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