Silopren® LIM9071 ET

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

LIM®9071 ET TP 3915 liquid silicone rubber is a 2-component liquid injection moulding material which offers primerless adhesion to a wide range of substrates including metals and many engineering plastics, making it an ideal material for insert moulding applications. LIM®9071 ET TP 3915 liquid silicone rubber is designed to be used in a 1:1 mix ratio and cures rapidly at moulding temperatures of 150°C - 190°C to a high tear strength, translucent silicone elastomer.
Key Features and Benefits
Primerless adhesion to many substrates
Maximum adhesion immediately after de-moulding
High temperature stability
Excellent stability and flexibility at low temperatures
Outstanding ageing behaviour and weathering resistance
Good mechanical properties
Easy pigmentable due to translucent colour
Potential Applications
LIM®9071 ET TP 3915 is particularly suitable for the manufacturing of parts, where engineering plastics and elastomeric materials need to be combined in an over moulding or co-moulding process such as sealing elements, automotive connectors, membranes vibration dampening elements, etc.

General Information			
Features	Fast Cure		
	Good Adhesion		
	Good Colorability		
	Good Stability		
	Good Tear Strength		
	Good Thermal Stability		
	Good Weather Resistance		
	Low Temperature Flexibility		
Uses	Automotive Applications		
	Connectors		
	Membranes		
	Seals		
Appearance	Translucent		
Forms	Liquid		
Processing Method	Liquid Injection Molding (LIM)		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density [1]	1.11	g/cm³	DIN 53479
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			DIN 53505
Shore A [2]	70		
Shore A [3]	67		
Elastomers	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength			DIN 53504
-- [4]	6.00	MPa	
-- [5]	6.50	MPa	
Tensile Elongation			DIN 53504
Break [6]	250	%	
Break [7]	300	%	
Tear Strength [8]			ASTM D624
-- [9]	18.0	kN/m	
-- [10]	20.0	kN/m	
Compression Set			DIN 53517
120°C, 22 hr [11]	8.0	%	
120°C, 22 hr [12]	9.0	%	
175°C, 22 hr [13]	30	%	
175°C, 22 hr [14]	60	%	
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			
-- [15]	Translucent		
-- [16]	Translucent		
Viscosity			DIN 53018
20°C [17]	300	Pa·s	
20°C [18]	300	Pa·s	
Pot Life (20°C)	4300	min	

NOTE	
1.	Postcured: 4 h at 200°C
2.	Postcured: 4 h at 200°C
3.	As moulded
4.	Postcured: 4 h at 200°C
5.	As moulded
6.	Postcured: 4 h at 200°C
7.	As moulded
8.	Die B
9.	Postcured: 4 h at 200°C
10.	As moulded
11.	Postcured: 4 h at 200°C
12.	As moulded
13.	Postcured: 4 h at 200°C

14.	As moulded
15.	Part B
16.	Part A
17.	Part B
18.	Part A

Recommended distributors for this material

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WECHAT