LIM™ 6040-D2

Silicone Rubber, LSR

Momentive Performance Materials Inc.

Message:

LIM6040-D2 liquid silicone rubber is a 2-component product formulated for use in liquid injection molding to high performance elastomeric parts. It is clear, but easily pigmentable with Momentive masterbatch colors. The combination of excellent tear strength and very high tensile strength makes this product suitable for a wide variety of applications. Mechanical parts such as connector inserts, seals, flexible mounts, and valve parts can be made readily from LIM6040-D2 liquid silicone rubber.
Key Features and Benefits
High clarity for excellent visibility
Excellent tear strength
Convenient 1:1 mix ratio for use with automatic equipment
Rapid cure time: 10 to 40 seconds depending upon part size, configuration, and molding temperature
Wide range of molding temperatures: 150°C (302°F) to 205°C (400°F)
Excellent release from metal molds
The combination of excellent clarity, tear strength and very high tensile strength makes this product suitable for a wide variety of applications.
Baby bottle nipples
Connector inserts
Seals
Flexible mounts
Valves
Sports goggles
Masks
Health care equipment
Camera parts
Coating metal rolls

General Information	
Features	Fast Cure
	Good Mold Release
	Good Tear Strength
	High Clarity
	High Tensile Strength
Uses	Camera Applications
	Coating Applications
	Connectors
	Medical/Healthcare Applications
	Seals
	Sporting Goods
	Valves/Valve Parts
Agency Ratings	BfR Food Contact, Unspecified Rating
	FDA 21 CFR 177.2600
	ISO 10993
	USP Class VI

UL File Number	E205753		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	Liquid Injection Molding (LIM)		
Elastomers	**Nominal Value**	**Unit**	
Bayshore Resilience			
-- [1]	54	%	
-- [2]	58	%	
Flammability	**Nominal Value**		**Test Method**
Flame Rating	HB		UL 94
Thermoset	**Nominal Value**	**Unit**	
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Uncured Properties	**Nominal Value**	**Unit**	
Color			
-- [3]	Clear/Transparent		
-- [4]	Clear/Transparent		
Density			
-- [5]	1.12	g/cm³	
-- [6]	1.12	g/cm³	
Cured Properties	**Nominal Value**	**Unit**	
Shore Hardness			
Shore A [7]	40		
Shore A [8]	42		
Tensile Modulus			
100% Secant [9]	1.06	MPa	
100% Secant [10]	1.50	MPa	
Tensile Strength			
-- [11]	8.30	MPa	
-- [12]	9.70	MPa	
Tensile Elongation at Break			
-- [13]	600	%	
-- [14]	650	%	
Compression Set			
177°C, 22.0 hr [15]	25	%	
177°C, 22.0 hr [16]	40	%	
Tear Strength			
-- [17]	40.4	kN/m	
-- [18]	40.4	kN/m	
Electric Strength [19]	18	kV/mm	
Relative Permittivity [20] (1 kHz)	3.00		

Volume Resistivity [21]	6.4E+14	ohms·cm
Dissipation Factor [22] (1 kHz)	1.0E-4	

NOTE	
1.	Postbaked 1 hr @ 204°C (400°F)
2.	As Molded 30 sec @ 177°C (350°F)
3.	Part B
4.	Part A
5.	Part B
6.	Part A
7.	As Molded 30 sec @ 177°C (350°F)
8.	Postbaked 1 hr @ 204°C (400°F)
9.	As Molded 30 sec @ 177°C (350°F)
10.	Postbaked 1 hr @ 204°C (400°F)
11.	As Molded 30 sec @ 177°C (350°F)
12.	Postbaked 1 hr @ 204°C (400°F)
13.	Postbaked 1 hr @ 204°C (400°F)
14.	As Molded 30 sec @ 177°C (350°F)
15.	Postbaked 1 hr @ 204°C (400°F)
16.	As Molded 30 sec @ 177°C (350°F)
17.	Postbaked 1 hr @ 204°C (400°F)
18.	As Molded 30 sec @ 177°C (350°F)
19.	As Molded 30 sec @ 177°C (350°F)
20.	As Molded 30 sec @ 177°C (350°F)
21.	As Molded 30 sec @ 177°C (350°F)
22.	As Molded 30 sec @ 177°C (350°F)

Recommended distributors for this material

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