

# LIM™ 6050-D2

Silicone Rubber, LSR

Momentive Performance Materials Inc.

## Message:

LIM6050-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 Performance Materials masterbatch colors. LIM6050-D2 offers convenient 1:1 mix ratio, high tear strength, and easy release from molds. Cure time is rapid, generally 10 to 40 seconds (@ 150-205°C) depending upon part size, configuration, and molding temperature.

### Key Features and Benefits

LIM6050-D2 liquid silicone rubber is distinguished by the following properties:

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

### Potential Applications

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)	
Physical	Nominal Value	Unit
Density <sup>1</sup>	1.11	g/cm <sup>3</sup>
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		
-- <sup>2</sup>	Clear/Transparent	
-- <sup>3</sup>	Clear/Transparent	
Pot Life (20°C)	4300	min
Cured Properties	Nominal Value	Unit
Shore Hardness <sup>4</sup> (Shore A)	51	
Tensile Modulus <sup>5</sup> (100% Secant)	1.95	MPa
Tensile Strength <sup>6</sup>	8.30	MPa
Tensile Elongation at Break <sup>7</sup>	480	%
Tear Strength <sup>8</sup> (Die B)	41.0	kN/m
NOTE		
1.	Molded 17 min @ 177°C (350°F)	
2.	Part B	
3.	Part A	
4.	Molded 17 min @ 177°C (350°F)	
5.	Molded 17 min @ 177°C (350°F)	
6.	Molded 17 min @ 177°C (350°F)	
7.	Molded 17 min @ 177°C (350°F)	
8.	Molded 17 min @ 177°C (350°F)	

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