

BLUESIL™ LSR 6350

October 2017

Liquid Silicone Rubber

Description Bluesil™ LSR 6350 is a 50 durometer, industrial grade liquid silicone rubber designed for producing high clarity, high strength molded parts.

Applications

- Precision molded parts
- Automotive applications: valves, gaskets, seals
- Insert molding
- Industrial and consumer applications

Features

- **Superior clarity**
- **High tear strength**
- Excellent mold release for shorter cycle times
- Rapid cure at elevated temperature
- For low compression set and high resilience, no post curing is needed

Typical Properties

Typical Properties – as supplied

<u>Property</u>	<u>Test method</u>	<u>Value</u>	
	CTM		
• Appearance	TP 038	Clear, paste-like liquid	
• Specific gravity	TP 013	1.12	
• Extrusion Rate, g/min	TP 001	80	
• Viscosity shear rate 1/ sec, Pa.s		2000	
shear rate 10/ sec, Pa.s		700	
	ASTM	Press Cured¹ 5 minutes, 177°C	Post Cured¹ 4 hours, 200°C
• Hardness, Shore A	D 2240	50	52
• Tensile Strength, psi (N/mm ²)	D 412	1225 (8.4)	1275 (8.8)
• Elongation, %	D 412	570	530
• Tear Strength, ppi (N/mm)	D 624, Die B	265 (47)	190 (51)
• Modulus 100%, psi (N/mm ²)	D 412	295 (2.0)	400 (2.3)
• Resiliency, %	D 2632	60	57
• Compression Set, %	D 359B	35	12

¹ ASTM Slab 6"x6"x0.07"

Please note: The typical properties listed in this bulletin are not intended for use in preparing specifications for any particular application of BLUESIL™ silicone materials. Please contact our Technical Service Department for assistance in writing specifications.

Instructions for use Parts A and B components of Bluesil™ LSR 6350 are designed to be mixed in equal parts using standard liquid injection molding processing equipment and techniques. Airless mixing, metering and dispensing equipment are recommended for production operations. Accurate measuring and complete mixing are essential factors in obtaining consistent results.

Curing

- Industrial and consumer applications

Cleaning Special care must be taken to assure clean molds and a clean work area with no organic rubbers used on the same processing equipment. Traces of foreign materials can poison the catalyst and inhibit the cure. All metering and mixing equipment should be thoroughly cleaned. Polymer systems, which contain traces of amines, sulfur, nitrogen oxide, organotin compounds and carbon monoxide can interfere with the cure of this product and should be avoided.

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Limitations	<p>Bluesil™ LSR 6350 is an industrial grade product. At no time does Bluestar Silicones support the use of industrial grade silicone for health care, medical and/ or pharmaceutical applications.</p> <p>Silbione™ brand LSR materials have been developed specifically to meet applicable requirements in both North America and Europe for these applications. Please reference Bluestar Silicones Silbione™ brand products for health care, medical and/ or pharmaceutical applications.</p>
Storage and shelf life	<p>Bluesil™ LSR 6350 when stored in the original, unopened container at room temperature (24°C (77°F)), can be stored for 12 months from the date of manufacturing. Beyond this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.</p>
Safety	<p>Please read the container labels for Bluesil™ LSR 6350 or consult the Material Safety Data Sheet (MSDS) before handling for safe use, physical and health hazard information. The MSDS is not included with the product packaging, but can be obtained by contacting Bluestar Silicones at 866-474-6342 or consult your Bluestar Silicones representative.</p>
Packaging	<p>Bluesil™ LSR 6350 is available in 22.6 kg or 200 kg kits.</p>

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