



DEVELOPMENTAL Technical Data Sheet

## SILASTIC™ RBL-9200C-40 Liquid Silicone Rubber – Developmental Product

40 Shore A hardness, 1 to 1 mix Liquid Silicone Rubber (LSR) designed for liquid injection molding

### Features & Benefits

- Good process performance
- Good light transmittance

### Applications

SILASTIC™ RBL-9200C-40 Liquid Silicone Rubber is a translucent, general purpose LSR.

This product can be used in a wide range of applications, including but not limited to:

- General consumer goods articles
- Grommets, gaskets
- Aquatic and sporting goods

### Typical Properties

Specification Writers: The tests and values listed below are not intended for use in preparing specifications. Certain tests mentioned below may only be performed during development of the product and may no longer be provided if the product is commercialized.

Test <sup>1</sup>	Property	Unit	Result
	Appearance		Translucent
ASTM D2240	Hardness <sup>2</sup>	Shore A	39
ASTM D412	Elongation <sup>2</sup>	%	750
ASTM D412	Tensile Strength <sup>2</sup>	MPa	10.8
ASTM D624 B	Tear Strength <sup>2</sup>	KN/m	30
ASTM D792	Specific Gravity <sup>2</sup>	/	1.11
CTM 0157	Linear Shrinkage	%	2.1

1. ASTM: American Society for Testing and Materials. Materials were tested according to Dow Corporate Test Methods (CTM), which in most cases are similar to the ASTM standard(s) listed above. Copies for CRMs are available on request.
2. Cure condition: 5 min at 150°C, no post-cure



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### Curing properties:

Temperature: 120C/6M		
T10	sec	65
T90	sec	96

Mixed PART A & PART B with 1:1 ratio

### Description

SILASTIC RBL-9200C-40 Liquid Silicone Rubber is a general-purpose injection-molding elastomer. It belongs to the SILASTIC™ RBL-9200C Series, developed to be suitable for a wide range of typical silicone rubber applications.

### How To Use

#### Mixing and De-Airing

The A and B components are supplied strained and de-aired to be used as lot matched kits. Mix parts A and B in a 1:1 ratio. Meter mix equipment which pumps, meters and mixes the two components without incorporation of air is strongly recommended for production. If air bubbles are entrapped during mixing the mixture must be thoroughly de-gassed under vacuum.

#### Cleaning

The uncured silicone can readily be removed by most hydrocarbon solvents. Polar solvents, such as ketones and alcohols are not suitable.

#### Pot Life

When Parts A and B are mixed the mixture will remain useable for 72 hours at 25°C (77°F).

#### Curing

SILASTIC RBL-9200C-40 Liquid Silicone Rubber cures readily at elevated temperatures. The cure time depends on the thickness and the cure temperature used. Cure can be inhibited by contact with certain materials such as amines, sulfur, and organotin complexes.

#### Pigmentation

This is normally carried out during mixing and dispensing of the two components. XIAMETER™ Color Master Batches are recommended with normal addition levels of 2 to 4% based on total volume.

– May be shared with anyone

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**SILASTIC™ RBL-9200C-40 Liquid Silicone Rubber –  
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**Packaging  
Information**

This product is supplied in lot matched pail and drum kits.

**Usable Life And  
Storage**

When stored at or below 35°C (95°F) in the original unopened containers, this product has a usable life of 12 months from the date of production.

**Limitations**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

**Handling  
Precautions**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT [WWW.CONSUMER.DOW.COM](http://WWW.CONSUMER.DOW.COM), OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

**Health And  
Environmental  
Information**

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, [www.consumer.dow.com](http://www.consumer.dow.com) or consult your local Dow representative.



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### **Developmental Product Disclaimer**

\_RBL-9200C-40\_(Product) is a Dow developmental material. The composition, features, benefits and other properties are subject to change. The future availability of this product is not guaranteed. You are responsible to determine the suitability of the Product for your contemplated use. The Product is provided "AS IS" WITH ALL FAULTS, AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

