



Technical Data Sheet

SILASTIC™ 9201-50 Liquid Silicone Rubber

FEATURES & BENEFITS

- 50 Shore A hardness
- 1% oil filled
- Self-lubricating
- Low compression set
- Low viscosity
- Unique rheology
- Allows part design flexibility
- Excellent process performance
- Enables short cycle time
- No post-cure required
- Ideal for radial seals

50 Shore A hardness, self-lubricating, 1 to 1 mix Liquid Silicone Rubber designed for liquid injection molding.

APPLICATIONS

- Automotive connector seals
- Electrical connector seals/gaskets
- Weatherpack seals

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications.

Test ¹	Property	Unit	Result
ASTM D2240	Hardness ²	Shore A	50
	Phenyl Oil Content	wt %	1
ASTM D412	Elongation ²	%	400
ASTM D412	Tensile Strength ²	MPa	7.2
ASTM D 624 B	Tear Strength ²	kN/m	40
ASTM D792	Specific Gravity ²		1.12
ASTM D395	Compression Set ^{3,4} , 22hrs 175°C	%	21
CTM 1094	Viscosity (10 s ⁻¹)		
	Part A	Pa.s	180
	Part B	Pa.s	140

¹ASTM: American Society for Testing and Materials;

CTM: Corporate Test Method; copies of CTMs are available on request.

²Cure condition: 10 min at 120°C.

³Cure condition: 10 min at 175°C.

⁴Tested according to method B, type I (12.5 mm).

DESCRIPTION

SILASTIC™ 9201-50 Liquid Silicone Rubber is a self-lubricating Liquid Silicone Rubber developed to give excellent process performances due to its improved rheology. This product belongs to the SILASTIC™ 920X-YY series.

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.

Pot Life

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

Cleaning

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

Curing

SILASTIC 9201-50 Liquid Silicone Rubber cures readily at elevated temperatures. A 2 mm cross-section requires 6-10 seconds at 196°C (385°F). The cure time depends on the thickness and the cure temperature used. Cure can be inhibited by contact with certain materials such as amines, sulphur, and organotin complexes.

Pigmentation

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

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,
OR FROM YOUR DOW SALES
APPLICATION ENGINEER, OR
DISTRIBUTOR, OR BY CALLING
DOW CUSTOMER SERVICE.**

USABLE LIFE AND STORAGE

When stored at or below 35°C (95°F) in original, unopened containers this product has a usable life of 15 months from the date of production.

PACKAGING INFORMATION

This product is supplied in lot matched kits (2 x 20 kg pail and 2 x 205 kg steel drum).

LIMITATIONS

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

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 or consult your local Dow representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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