



Technical Data Sheet

XIAMETER™ RBL-9050-50P Liquid Silicone Rubber

45 Durometer, two-part, 10 to 1 mix, clear, fabric coating grade Liquid Silicone Rubber

Features & Benefits

- Very low viscosity
- No post-cure required
- Excellent electrical insulating properties
- Easily pigmented
- Unprimed adhesion to glass fabric
- Suitable for dip coating

Applications

- Fabric coating
- Electrical-wire sleeving

Typical Properties

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

Test ¹	Property	Unit	Result
As supplied			
	Solids content	%	100
	Mixed viscosity	mPa.s	5,000
As molded			
D792	Specific gravity		1.03
D2240	Hardness	Shore A	48
D412 DIE C	Tensile strength	MPa (psi)	7.5 (1090)
D412 DIE C	Elongation at break	%	160
D624 DIE B	Tear strength	kN/m (ppi)	3.8 (22)
D257	Volume resistivity	Ohm.cm	6.0 x 10 ¹⁵
D149	Dielectric strength	kV/mm	39
D150	Permittivity 100Hz		2.7

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 listed above.

Properties obtained on 2 mm thick slabs: Press cured 10 minutes at 120°C (248°F)
Viscosity measured on the Brookfield HAF Viscometer, spindle 7, 10 r.p.m

Typical Properties (Cont.)

Test	Property	Unit	Result
D150	Permittivity 100Hz		2.7
D150	Dissipation factor 100Hz		0.001
D150	Dissipation factor 100Hz		0.001
D635	Flammability		Self-extinguishing

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 10:1 ratio. Meter mix equipment which pumps' meters and mixes the two components without the 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 usable 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

XIAMETER™ RBL-9050-50P Liquid Silicone Rubber cures rapidly at elevated temperatures. A 2 mm cross-section requires 8–14 seconds at 200°C (392°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 tin 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.

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

Product should be stored at or below 32°C (90°F) in original, unopened containers.

Limitations

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

Not intended for human injection.

UNRESTRICTED – May be shared with anyone

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Health And Environmental Information

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For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

<http://www.xiameter.com>

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