



Technical Data Sheet

SILASTIC™ LC 1000 Liquid Silicone Rubber

FEATURES

- Solventless and Flowable
- Easily pigmentable
- Soft, flexible, high elongation cured rubber properties
- Excellent unprimed adhesion to polyamide and polyester fabric
- Fast cure

SILASTIC™ LC 1000 Liquid Silicone Rubber is a 2 part liquid silicone rubber for fabric coating.

APPLICATIONS

- Fabric coating designed for high adhesion to various substrates using conventional fabric coating techniques

TYPICAL PROPERTIES

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

Test*	Property	Unit	Result		
CTM 0176B	Appearance		Translucent white		
CTM 0050FE	Viscosity, 10rpm	mPa.s	<u>Part A</u> 155,000	<u>Part B</u> 195,000	<u>Mixed</u> 180,000
Rubber properties, measured on a 2mm test sheet cured 10 minutes / 120°C					
ASTM D412 Die C	Elongation at break	%	1500		
ASTM D412 Die C	Tensile strength	Mpa	3.5		
ASTM D2240	Durometer hardness	Shore A	10		

*Materials were tested according to Corporate Test Methods (CTM), which in most cases are similar to the ASTM standard listed above. Copies of CTMs are available on request.

HOW TO USE

Mixing

The A and B components are supplied strained and de-aired. Mix parts A and B in a 1:1 +/- 0.05 ratio by weight. Meter mix equipment which pumps, meters and mixes the two components without the incorporation of air is strongly recommended for production. In either case, air entrainment should be avoided by careful choice of mixer blade design and mixing speed.

Pot Life

Mixed Parts A and B will remain usable for 4 hours at 25°C (77°F).

Cure

The mixed Liquid Silicone Rubber should (LSR) be applied to the fabric

and cured in an oven using a temperature/time schedule to achieve sufficient adhesion and coating aging properties. A suggested cure is 180°C for 1 minute, but lower temperature for a longer time may be suitable for polyester. A minimum temperature of 150°C is recommended.

Cure can be inhibited by contact with certain materials such as amines, sulphur and tin complexes. The effect on the coating is to prevent complete cure, with the result that the coating feels sticky. Low levels of inhibition may not result in stickiness, but can reduce adhesion, and in some cases this can be recovered by further heating.

Cleaning

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

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 32°C in the original unopened containers, this product has a usable life of 12 months from the date of production.

PACKAGING INFORMATION

This product is available in standard industrial container sizes.

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.

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