Product Information

Liquid Silicone Rubber

DOW CORNING

SILASTIC® 9481-50US

FEATURES

- Fast heat cure, low shrinkage, no cure by-products
- High tear strength
- Good clarity
- Easily pigmentable
- Formulated to meet FDA 21 CFR 177.2600 and BgVV,XV

50 Durometer, 2-part, 1-to-1 mix, clear, injection molding grade Liquid Silicone Rubber

APPLICATIONS

- Baby care - nipples/pacifiers
- Suitable for food contact

TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

ASTM*	Property	Unit	Value
	As supplied		
	Solids content	%	100
CTM 0364	Extrusion rate	g/min[1]	44
D792	Specific gravity		1.14
	As molded		
D2240	Hardness	Shore A	51
D412 DIE C	Tensile strength	MPa (psi)	10.4(1502)
D412 DIE C	Elongation at break	%	629
D624 DIE B	Tear strength	kN/m (ppi)	47(275)

Properties obtained on 1.9mm (0.075in.) thick slabs. Press cured 5 minutes at 150ºC (300ºF).
*ASTM: American Society for Testing and Materials.
Materials were tested to Dow Corning Corporate Test Methods (CTM), which in most cases are similar to the ASTM standard listed above. Copies of CTMs are available on request.
[1] 6.2 Bar (90psi), 3.2mm (1/8 inch) orifice.

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 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

After the A and B components are mixed, the mixture will remain usable for more than 24 hours at room temperature.

Cleaning

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

Curing

SILASTIC 9481-50US cures rapidly at elevated temperatures. A 2mm cross-section requires 8-14 seconds at 200ºC (392ºF). 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. Silastic Liquid Color Master batches are recommended with normal additions of 0.5 to 4% based on total volume. These are available from Dow Corning.

HANDLING PRECAUTIONS
Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

USABLE LIFE AND STORAGE
When stored at or below 32ºC (90ºF) in the original, unopened containers this product has a usable life of 18 months from the date of production.

PACKAGING
This product is supplied in lot matched kits: in pail kits of 80 lb/36.2kg (40 lbs each of parts A and B) and in drum kits of 900 lb/409kg (450 lbs each of parts A and B).

FOOD CONTACT
This product has been formulated to meet applicable food contact regulations and recommendations (for example: FDA 21.CFR 177.2600 and BgVV, XV). For further details on the suitability of this product for food contact applications, please refer to the Food Regulatory Profile. This information is available from your local Dow Corning Customer Service Center.

Post cure is recommended to ensure that food contact requirements are met.

Note: It remains the manufacturers' responsibility to test the final product.

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 Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

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

CONTACT INFORMATION
For further help or assistance see our website, www.dowcorning.com or contact:
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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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