



Technical Data Sheet

SILASTIC™ SH 842 U Silicone Rubber

General purpose silicone rubber designed for use in a variety of molded goods

Features & Benefits

- General purpose (GP)
- 39 JIS-Type A hardness
- Shrinkage adjusted to higher level
- Pigmentable
- Wide service temperature
- Will accept extending fillers

Composition

- Silicone rubber

Applications

- General rubber molding
- Rubber parts for home electric appliances
- Keypads
- OA rollers

Typical Properties

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

Test ¹	Property	Unit	Result
As supplied			
CTM 0176	Appearance		Translucent
JIS K 6249	Plasticity		200
As cured			
JIS K 6249	Density	g/cm ³	1.13
JIS K 6249	Hardness, JIS type A		40
JIS K 6249	Tensile strength, JIS#3	MPa	8.1

Properties obtained using 0.65 part SILASTIC™ RC-4 50P FD Rubber Additive (2,5-bis(tert-butylperoxy)-2,5-dimethyl hexane, 50% masterbatch) on 2 mm thick slabs: molded 10 minutes at 170°C (338°F) and post-cured 4 hours at 200°C (392°F).

1. CTM: Corporate Test Method, copies of CTMs are available on request.
JIS: Japanese Industrial Standard.

Typical Properties (Cont.)

Test	Property	Unit	Result
JIS K 6249	Elongation, JIS#3	%	480
JIS K 6249	Tear strength, angle	N/mm	21
JIS K 6249	Linear shrinkage (disc) ²	%	3.7
JIS K 6249	Linear shrinkage (sheet) ²	%	4.0

2. Linear shrinkage depends on the curing conditions such as type of curing agent, curing temperature and size of molded product.

Description

SILASTIC™ SH 842 U Silicone Rubber is a 39 durometer general purpose silicone rubber compound especially designed to provide good results when making molded parts. It can be blended with other Dow silicone rubbers to obtain intermediate hardness.

It is off-white semi translucent and therefore can be easily pigmented to obtain most any color shade desired. SILASTIC™ SH 842 U Silicone Rubber is primarily used for molded parts such as keypad, gasket, and other miscellaneous goods.

How to Use

For blending or pigmenting, milling with a two-roll mill is the most suitable process. Milling time should be carefully decided to secure uniformity of materials. When molding, Dow recommends SILASTIC™ RC-4 50P FD Rubber Additive as a vulcanizing agent. Standard cure temperature is 170°C (338°F), and its cure time depends on the thickness of final products. Post-cure condition would be 4 hours at 200°C (392°F) after molding in most cases.

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 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 room temperature (away from direct sunlight), maximum 32°C (90°F), in the original unopened containers, this product has a usable life of 9 months from the date of production.

Packaging Information

This product is available in 20 kg boxes.

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, consumer.dow.com or consult your local Dow representative.

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