



Technical Data Sheet

SILASTIC™ SH 75 UN Silicone Rubber

69 Durometer, molding, high strength, uncatalyzed silicone rubber

Features & Benefits

- 69 JIS-Type A hardness
- High tensile
- High tear
- Serviceable over wide temperature range
- Pigmentable

Composition

- Silicone rubber (HCR)
- Uncatalyzed stock (U-stock)

Applications

- Molding
- Diaphragms
- Aircraft parts
- High strength

Typical Properties

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

Test ¹	Property	Unit	Result
As supplied			
	Appearance		Light yellow
JIS K 6249	Plasticity	mm/100	293
As cured			
JIS K 6249	Density	g/cm ³	1.20
JIS K 6249	Durometer hardness, JIS type A		68
JIS K 6249	Tensile strength, JIS#3	MPa	10.5
JIS K 6249	Elongation, JIS#3	%	510
JIS K 6249	Tear strength, crescent	N/mm	42
JIS K 6249	Compression set, (22 hours at 180°C/ 356°F)	%	15

1. JIS: Japanese Industrial Standard

Properties obtained using 1.2 part of SILASTIC™ RC-4 50P FD Rubber Additive (2,5-bis(tert-butylperoxy)-2,5-dimethyl hexane, 50% masterbatch) per 100 parts of SILASTIC™ SH 75 UN Silicone Rubber: molded 10 minutes at 170°C (338°F) and post-cured 5 hours at 230°C (446°F).

How to Use

Milling

For adding vulcanizing agents, additives, and / or pigments or blending, milling with a two-roll mill is the most suitable process. Milling time should be carefully decided to secure uniformity of materials.

Vulcanization

SILASTIC™ SH 75 UN Silicone Rubber requires the addition of a vulcanizing agent. SILASTIC™ RC-4 50P FD Rubber Additive is recommended for molding. Standard cure temperature is 170°C (338°F), and its cure time depends on the thickness of final products. Post-cure condition would be 5 hours at 230°C (446°F) after molding in most cases.

Compounding

SILASTIC™ SH 75 UN Silicone Rubber can be blended with other bases to modify the durometer of the compound. The physical properties of this product can be modified using a range of SILASTIC™ or XIAMETER™ additives. Further, SILASTIC™ SH 75 UN Silicone Rubber can be pigmented to almost any color shade desired.

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 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, this product has usable life of 180 days from the date of production.

Packaging Information

SILASTIC™ SH 75 UN Silicone Rubber is available in 20 kg (44 lb) 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, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

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