



Technical Data Sheet

SILASTIC™ SH 55 UA Silicone Rubber

Silicone rubber featuring high strength, designed for use in a variety of molded goods

Features & Benefits

- High strength
- 51 JIS-Type A hardness
- Pigmentable
- Wide service temperature

Composition

- Silicone rubber

Applications

- Rubber molding
- Engine / underhood gasketing
- Ignition systems

Typical Properties

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

Test ¹	Property	Unit	Result
As supplied			
CTM 0176	Appearance		Straw yellow
JIS K 6249	Plasticity		260
As cured			
JIS K 6249	Density	g/cm ³	1.15
JIS K 6249	Hardness, JIS type A		52
JIS K 6249	Tensile strength, JIS#3	MPa	10.2
JIS K 6249	Elongation, JIS#3	%	820
JIS K 6249	Tear strength, crescent	N/mm	29
JIS K 6249	Compression set (22 hours at 180°C/356°F)	%	27

Properties obtained using 1.0 part of 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 5 hours at 230°C (446°F).

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

Description

SILASTIC™ SH 55 UA Silicone Rubber is a 51 durometer silicone rubber compound that exhibit high strength. It is suitable for making many general purpose silicone rubber goods using molding, extrusion and calendaring techniques.

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 using about 1.0 parts of SILASTIC™ RC-4 50P FD Rubber Additive to 100 parts of the stock. 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.

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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