



Technical Data Sheet

SILASTIC™ DY 32-4188 U Silicone Rubber
SILASTIC™ DY 32-5188 U Silicone Rubber
SILASTIC™ DY 32-7188 U Silicone Rubber

High-temperature vulcanized silicone rubber

Features & Benefits

- 40-70 Sh A hardness grade
- Translucent
- Suitable for extrusion molding
- Pigmentable
- Wide service temperature
- Excellent extrusion performance

Composition

- Silicone rubber

Applications

SILASTIC™ DY 32-4188 U Silicone Rubber, SILASTIC™ DY 32-5188 U Silicone Rubber and SILASTIC™ DY 32-7188 U Silicone Rubber are designed for use in a variety of molded use, especially for the extrusion of high quality silicone rubber products.

- Tubing
- Shaped material
- Wire and cable
- Molded products

Typical Properties

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

Test ¹	Property	Unit	Result		
			SILASTIC™ DY 32-4188 U Silicone Rubber	SILASTIC™ DY 32-5188 U Silicone Rubber	SILASTIC™ DY 32-7188 U Silicone Rubber
JIS K6249	Plasticity	mm/100	160	210	330
JIS K6268	Density	g/cm ³	1.10	1.13	1.19
JIS K6253	Hardness (JIS type A)		42	50	71

1. JIS: Japanese Industry Standard
Blending ratio of rubber: base / vulcanizing agent (SILASTIC™ RC-4 50P FD Rubber Additive) = 100 / 0.8
Cure condition: molded at 170°C / 10min; post cured at 20°C / 4hr
SILASTIC™ RC-4 50P FD Rubber Additive is the special vulcanizing agent of Dow

Typical Properties (Cont.)

Test	Property	Unit	Result		
			SILASTIC™ DY 32-4188 U Silicone Rubber	SILASTIC™ DY 32-5188 U Silicone Rubber	SILASTIC™ DY 32-7188 U Silicone Rubber
JIS K6251	Tensile strength	MPa	8.4	11.1	10.4
JIS K6251	Elongation	%	550	650	390
JIS K6252	Tear strength (crescent)	N/mm	7	11	13

Description

SILASTIC™ DY 32-4188 U Silicone Rubber, SILASTIC™ DY 32-5188 U Silicone Rubber and SILASTIC™ DY 32-7188 U Silicone Rubber are silicone rubber compounds with hardness 40, 50 and 70 ShA, suitable for continuous extruded products and molded products. They can be mixed with other Dow silicone rubbers to achieve proper physical and mechanical performance.

How to Use

SILASTIC™ DY 32-4188 U Silicone Rubber, SILASTIC™ DY 32-5188 U Silicone Rubber and SILASTIC™ DY 32-7188 U Silicone Rubber need the addition of appropriate peroxide vulcanizer, such as SILASTIC™ RC-14 A Organic Peroxide Type D, SILASTIC™ RC-3 40P FD Rubber Additive or SILASTIC™ RC-4 50P FD Rubber Additive, with suitable shaping process under proper temperature.

In some cases, a second cure is required. Contact Dow for support.

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 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 20 kg carton.

Food Contact

SILASTIC™ DY 32-4188 U Silicone Rubber, SILASTIC™ DY 32-5188 U Silicone Rubber and SILASTIC™ DY 32-7188 U Silicone Rubber are listed in 21 CFR177.2600. This FDA regulation deals with rubber articles intended for repeated use in contact with food. The regulation contains limitations on extractables which apply to the finished fabricated articles. For this reason, compliance with such limitations is the responsibility of the user.

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.

consumer.dow.com

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

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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