



Technical Data Sheet

SILASTIC™ DY 37-008 U Rubber

Fluorosilicone rubber used for making general molding parts for which oil and fuel resistance is required

Features & Benefits

- 45 JIS-Type A hardness fluorosilicone rubber
- Excellent fluid resistance to most hydrocarbon and silicone fluids
- Wide service temperature
- Pigmentable

Composition

- Fluorosilicone rubber

Applications

- Fuel and air system component parts
- Rubber molding parts
- Connector seals

Typical Properties

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

Test ¹	Property	Unit	Value
As supplied			
CTM0176	Appearance		White
JIS K 6249	Plasticity		250
As cured			
JIS K 6249	Density	g/cm ³	1.40
JIS K 6249	Hardness, JIS type A		45
JIS K 6249	Tensile strength, JIS#3	MPa	6.7
JIS K 6249	Elongation, JIS#3	%	380
JIS K 6249	Tear strength, crescent	N/mm	15
JIS K 6249	Linear shrinkage (disc) ²	%	3.3
JIS K 6249	Rebound	%	44
JIS K 6249	Change rate in volume (Fuel D, 70 hours at RT)	%	21

Properties obtained using 1.0 parts of SILASTIC™ RC-4 50P FD Rubber Additive (2,5 bis(tert-butylperoxy) 2,5 dimethyl hexane, 50% master batch) on 2 mm thick slabs: molded 10 minutes at 170°C (338°F) and post-cured 2.5 hours at 160°C (320°F).

1. CTM: Corporate Test Method, copies of CTMs are available on request.
JIS: Japanese Industrial Standard.
2. Linear shrinkage depends on the curing conditions such as type of curing agent, curing temperature and size of molded product.

Description

SILASTIC™ DY 37-008 U Rubber is a 45 durometer fluorosilicone rubber compound that exhibits excellent fluid resistance to most hydrocarbon and silicone fluids. It is suitable for making many general purpose fluorosilicone 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 2.5 hours at 160°C (320°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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