



## Technical Data Sheet

### SILASTIC™ DY 35-4088 Liquid Silicone Rubber

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

#### Features & Benefits

- 40 JIS-Type A hardness
- Rapid cure rate at elevated temperature
- Long pot life at room temperature
- Excellent moldability, excellent release
- Translucent, pigmentable
- Extremely long fatigue life

#### Composition

- Liquid silicone rubber

#### Applications

- General rubber molding
- Rubber parts for home electric appliances
- Keypads (premium grade)

#### Typical Properties

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

Test <sup>1</sup>	Property	Unit	Result
<b>As supplied</b>			
CTM 0176	Appearance, part A		Translucent
CTM 0176	Appearance, part B		Translucent
JIS K 6833	Viscosity, part A <sup>2</sup>	Pa.s	90
JIS K 6833	Viscosity, part B <sup>2</sup>	Pa.s	90
<b>Cure properties: 3 minutes at 130°C (266°F) by JSR Curelastometer</b>			
CTM 1059	T-10	s	26
CTM 1059	T-90	s	36

1. CTM: Corporate Test Method, copies of CTMs are available on request.  
JIS: Japanese Industrial Standard.
2. Viscosity: Spindle viscometer (BH type, #7 rotor x 10rpm).

## Typical Properties (Cont.)

Test	Property	Unit	Result
<b>Physical properties: 2 mm thickness slabs molded 5 minutes at 150°C (302°F)</b>			
JIS K 6249	Density	g/cm <sup>3</sup>	1.08
JIS K 6249	Hardness, JIS type A		40
JIS K 6249	Tensile strength, JIS #3	MPa	6.4
JIS K 6249	Elongation, JIS #3	%	350
JIS K 6249	Tear strength, angle	N/mm	18
JIS K 6249	Linear shrinkage (disc) <sup>3</sup>	%	2.3

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

### Description

SILASTIC™ DY 35-4088 Liquid Silicone Rubber is a two-component, 40 JIS-Type A hardness material specially designed for liquid injection molding. SILASTIC™ DY 35-4088 Liquid Silicone Rubber is primarily used for molded parts such as keypads for which high fatigue life is required.

### How to Use

SILASTIC™ DY 35-4088 Liquid Silicone Rubber is a two-component material supplied as SILASTIC™ DY 35-4088 Liquid Silicone Rubber Part A and SILASTIC™ DY 35-4088 Liquid Silicone Rubber Part B, which are meant to be combined in a 1-to-1 ratio. It is recommended that the two components be combined using process equipment that will not introduce air contamination. Standard cure temperature is 120–150°C (248–302°F), and cure time depends on the thickness of the final products.

#### Inhibition of Cure

The cure mechanism of this product can be inhibited by amines, sulfur, tin complexes and some peroxides. Various pigments typically used in the rubber industry contain such cure inhibiting ingredients. In pigmentation this product and in all other processing steps, care should be taken to avoid contamination that would lead to cure inhibition. Proper pigment recommendations are available from Dow.

### 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 supplied in lot matched kits: in drums (200 kg and 200 kg).

**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](http://consumer.dow.com) or consult your local Dow representative.

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