



Technical Data Sheet

SILASTIC™ SE 1645 U Silicone Rubber

Silicone rubber featuring high tear strength, designed for use in a variety of molded goods including extrusion products.

Features & Benefits

- Translucent
- 51 JIS-Type A hardness
- Suitable for extrusion molding
- Pigmentable
- Wide service temperature

Composition

- Silicone rubber

Applications

- Rubber extrusion parts
- Rubber molding
- Curtain wall (for construction parts)

Typical Properties

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

Test ¹	Property	Unit	Result
As supplied			
CTM 0176	Appearance		Translucent
JIS K 6249	Plasticity		240
As cured			
JIS K 6249	Density	g/cm ³	1.14
JIS K 6249	Hardness, JIS type A		52
JIS K 6249	Tensile strength, JIS#3	MPa	9.3
JIS K 6249	Elongation, JIS#3	%	570
JIS K 6249	Tear strength, angle	N/mm	28

Properties obtained using 1.3 part of SILASTIC™ RC-14 (Bis-(4-methylbenzoyl) peroxide, 50% masterbatch) on 2 mm thick slabs: molded 10 minutes at 120°C (248°F) and post-cured 4 hours at 150°C (302°F).

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

Description	SILASTIC™ SE 1645 U Silicone Rubber is a 51 durometer general purpose silicone rubber compound especially designed to provide good results with extrusion molding. It can be blended with other Dow silicone rubbers to obtain intermediate hardness. It is semi translucent and grey therefore can be easily pigmented to obtain most any color shade desired. SILASTIC™ SE 1645 U Silicone Rubber is primarily used for molded parts such as tube and other miscellaneous goods.
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 1.3 parts of SILASTIC™ RC-14 to 100 parts of the stock. Standard cure temperature is 120°C (248°F), and its cure time depends on the thickness of final products. Post-cure condition would be 4 hours at 150°C (302°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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