



Technical Data Sheet

SILASTIC™ 3631 Liquid Silicone Rubber

Specially formulated for narrow fabric coatings

Features & Benefits

- Compared to RTV:
 - Higher elongation
 - Lower modulus
 - Lower odor
 - Faster cure
- Clear when cured
- High grip
- Solvent free
- 1:1 mix

Applications

- Narrow fabrics for hold up stockings, lingerie, trouser waist, socks

Typical Properties

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

CTM ¹	Property	Unit	Result
0176	Appearance, when mixed		Clear liquid
0050	Viscosity ²	mPa.s	90,000
0137A	Elongation	%	800
0137A	Modulus	MPa	0.28
0099	Durometer	Shore A	19
0137A	Tensile strength	MPa	5
0159A	Tear strength	kN/m	16

1. CTM: Corporate Test Method, copies of CTMs are available on request.
2. Brookfield viscosimeter, spindle #7 at 10 rpm. Slab (2 mm thick) cure conditions: 15 minutes at 100°C.

Description	<p>SILASTIC™ 3631 Liquid Silicone Rubber is a two-component, heat cured, silicone rubber, specially developed for narrow fabric applications.</p> <p>Testing has shown that the cured product does not cause chemical irritation. However, there have been reports of skin irritation due to tightness of the silicone band. Wearer trials are therefore recommended prior to commercial use.</p>
Benefits	<p>SILASTIC 3631 Liquid Silicone Rubber is applied without solvent, both components are flowable and can be pumped. The polymerisation does not create any byproducts. The rubber is transparent when cured. Its viscosity allows the product to be applied on open lace.</p>
How To Use	<p>Mixing and De-Airing The A and B components of SILASTIC 3631 Liquid Silicone Rubber should be mixed in a 1:1 ratio. Metermix equipment which pumps, meters, and mixes the two components without the incorporation of air is strongly recommended for production purposes. If mixing results in air inclusion, the mixture must be degassed under vacuum.</p> <p>Pot Life When the A and B components are mixed, the mixture will remain usable for at least 45 minutes at 25°C. Pot life of several weeks can be achieved by storing below -10°C.</p> <p>Cleaning Uncured SILASTIC 3631 Liquid Silicone Rubber can be readily removed with non-polar solvents such as white spirit or other aliphatic hydrocarbons. Polar solvents such as alcohols and ketone are not suitable.</p> <p>Curing SILASTIC 3631 Liquid Silicone Rubber can be rapidly cured at elevated temperatures. The cure time depends on the thickness and on the cure temperature used. Recommended cure schedules are:</p> <ul style="list-style-type: none"> • 2.5 minutes at 80°C • 30 seconds at 110°C • 15 seconds at 130°C <p>Please consult the Technical Service Department for further advice.</p>
Handling Precautions	<p>Uncured SILASTIC 3631 Liquid Silicone Rubber contains no hazardous ingredients and has very low toxicity. It does not cause skin or eye irritation and may be handled safely without special precautions. However, normal industrial hygiene practices are recommended such as the use of safety glasses and protective gloves, where repeated contact is anticipated.</p>

Handling Precautions (Cont.)	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 WWW.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 30°C in the original unopened containers, this product has a usable life of 12 months from the date of production.
Packaging	This product is available in 2 x 20 kg kits. Samples are available in 2 x 1 kg kits.
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, www.consumer.dow.com or consult your local Dow representative.

<http://www.silastic.com>

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