Technical Data Sheet

SILASTIC™ HV 1523-30 Liquid Silicone Rubber

35 Durometer, two-part, 1 to 1 mix, black, high voltage grade liquid silicone rubber

Features & Benefits

- Low volume resistivity
- Suitable for injection molding
- High tear strength
- High elongation

Applications

- Cold shrink
- Electrically conductive moldings
- Electrical stress control devices

Typical Properties

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

Test[1]	Property	Unit	Result
	As Supplied		
	Appearance		Black
	As Mixed[2]		
DIN 53479	Specific Gravity		1.04
DIN 53505	Hardness	Shore A	35
DIN 53504	Tensile Strength	MPa	5.6
DIN 53504	Elongation at Break	%	650
ASTM D 624 B	Tear Strength	kN/m	30
IEC 60093	Volume Resistivity	Ω cm	8.00E+1

1. DIN: Deutsche Industrie Norm
   ASTM: American Society for Testing and Materials
   IEC: International Electrotechnical Commission
2. Measured on test sheets vulcanized 10 minutes at 120°C and also post cured for 4 hours at 200°C.

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How to Use

Mixing and De-Airing
SILASTIC™ HV 1523-30 Liquid Silicone Rubber A and B components are supplied strained and de-aired to be used as lot matched kits.

Mix parts A and B in a 1:1 ratio. Meter mix equipment which pumps, meters and mixes the two components without the incorporation of air is strongly recommended for production. If air bubbles are entrapped during mixing the mixture must be thoroughly degassed under vacuum.

Hand or mechanical mixing can be used but do not mix for an extended period of time or allow the temperature to exceed 35°C (95°F). It is very important to control the B to A ratio very precisely.

Pot Life
When Parts A and B are mixed, the mixture will remain usable for 72 hours at 25°C (77°F).

Cleaning
The uncured silicone can readily be removed by most hydrocarbon solvents. Polar solvents such as ketones and alcohols are not suitable.

Curing
SILASTIC™ HV 1523-30 Liquid Silicone Rubber cures rapidly at elevated temperatures. A 2 mm cross-section requires 8-14 seconds at 200°C. The cure time depends on the thickness and the cure temperature used. Cure can be inhibited by contact with certain materials such as amines, sulfur and tin complexes.

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 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 32°C (90°F) in the original unopened containers, this product has a usable life of 15 months from the date of production.

Limitations

Not intended for human injection. Not intended for food use.

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, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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