

Description

Silicone compound ready for use, particularly suitable for manufacturing silicone insulated cables.

Characteristics

- Very good dielectrical properties.
- Good mechanical properties.
- Extrusion at high speeds.
- The mechanical properties, fire resistance, high temperature resistance, or resistance to oils of the silicone compounds can be adjusted in accordance with the required standards.
- Good fire resistance and low smoke emission.
- Very good resistance to high temperatures: up to 250 °C.
- Hardness: From 60 to 75 Sh A.

Technical Data

Material: High consistency silicone rubber (HCR) for high temperature vulcanization (HTV).

PROPERTIES	METHOD	UNITS	
Hardness	DIN 53505	Sh A (+/-5)	Between 60 and 75
Density	DIN EN ISO 1183-1A	g/cc (+/-0.03)	>1.20
Tensile Strength	DIN 53504 S 1	Mpa	>5
Elongation	DIN 53504 S 1	%	>200
Volume resistivity	DIN IEC 93	Ω.cm	10 ¹⁵
Dielectric resistance	DIN IEC 243-2	kv/mm	20

*All data obtained after press curing with crosslinker E, 10min 135 °C, 4hr 200 °C. / This information serves only as a guide and should not be used to create specifications.

PROCESSING-VULCANIZATION Extrusion by hot air, infrared or steam (catenary)

APPLICATIONS Silicone insulated cables

SECTORS Transportation (automotive, rail, aviation, naval)
Household appliances
Electrical
Construction
Industrial machinery

PACKAGING/DOSAGE SILAM WIRE is supplied in 270 or 540 kg. cardboard boxes. It is supplied preformed in a filtered, endless strip. It is possible to supply in several strip dimensions.

STORAGE / SERVICE LIFE The compound should be stored in a closed area and at a temperature below 30°C.

The expiry date is indicated on the label. Product may exhibit altered characteristics if used after expiration date.

Warning to users

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products.

SILAM SILICONES GUARANTEES THAT ITS PRODUCTS COMPLY WITH ITS SALES SPECIFICATIONS.

This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations. Users are requested to check that they are in possession of the latest version of this document and SILICONAS SILAM is at their disposal to supply any additional information.