

Description

Ready for use silicone compound for the manufacture of silicone insulated safety cables that maintain circuit integrity in case of fire in accordance with existing regulations: EN-50200, NFC-32070 CR1, BS 6387 CWZ, DIN 4102, part 12, UL 2196, IEC 60331-11, etc.

Characteristics

- In case of fire, the silicone insulation becomes an insulating ceramic layer that maintains the integrity of electrical circuits even at temperatures > 950 °C.
- In case of fire, fumes low in density and toxicity are emitted.
- Good mechanical and dielectrical properties.
- Good resistance to high temperatures.
- Available in a wide range of colours.
- Hardness: From 65 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)	65
Density	DIN EN ISO 1183-1A	g/cc (+/-0.03)	>1.40
Breaking load	DIN 53504 S 1	Mpa	>6
Elongation	DIN 53504 S 1	%	>200
Volumetric resistivity	DIN IEC 93	Ω.cm	10 ¹⁵
Dielectrical 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).

APLICACIONES

Silicone insulated cables. Recommended for all installations where it is required to maintain circuit integrity even though these are affected directly by the fire.

SECTORES

Intended for safety circuits, signalling, detection and alarm circuits and circuits for evacuation services and fire-fighting:

- Public assembly buildings (airports, sports stadiums, underground, railway, etc.).
- Civil works (tunnels, viaducts, etc.).

EMBALAJE / DOSIFICACIÓN

SILAM WIRESF is supplied in 270 or 540 kg. cardboard boxes. It is supplied preformed in a filtered endless strip. Strips can be supplied in several dimensions.

ALMACENAJE / CADUCIDAD

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

The expiry date is indicated on the label. Once this may present some alteration of its characteristics.

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.