

Description

Monocomponent silicone compounds of platinum particularly suitable for manufacturing moulded items.

Characteristics

- The products which are postcured are suitable for food handling according to CFR 21/177.2600 FDA regulation and section "XV Silicones" of the BfR.
- The vulcanizing cycle is significantly faster than that of silicones that vulcanize with peroxides.
- Special features of the vulcanized parts: Easy release and Dry surface.
- Do not give off odours during the curing process.
- Excellent transparency and very good mechanical properties
- Can be easily coloured.
- Operating temperature: -60 to 200 °C.
- Hardness: From 20 to 80 Sh A.

Technical Data

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

PROPERTIES	METHOD	UNITS							
Hardness	DIN 53505	Sh A (+/-5)	30	40	50	60	70	80	
Density	DIN EN ISO 1183-1A	g/cc (+/-0.03)	1.11	1.12	1.13	1.14	1.18	1.20	
Tensile Strength	DIN 53504 S 1	Mpa	>9	>9.5	>10	>10	>9.5	>8.5	
Elongation	DIN 53504 S 1	%	>900	>700	>500	>500	>500	>400	
Tear Strength	ASTM 624 B	N/mm	>22	>25	>30	>30	>25	>22	

*All data are obtained after press curing with platinum crosslinker 15min 165° C, 4hr 200 °C. / This information serves only as a guide and should not be used to create specifications.

PROCESSING-VULCANIZATION

Compression and/or injection moulding
WARNING: Risk of deactivation! The platinum catalyst may be deactivated in the presence of rubber mixtures containing amines and/or sulphides

APPLICATIONS

All technical parts
 Moulds for food handling

SECTORS

Transportation (automotive, rail, aviation, naval)
 Food
 Agricultural
 Household appliances
 Machinery for the food industry

PACKAGING/DOSAGE

SILAM PT is supplied in 20, 270 or 540 kg. cardboard boxes. It can be supplied preformed in:

- Sheets available in different thicknesses.
- Endless strips (several strip dimensions).
- Blocks.

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.