

Material Data Sheet

SILICONE 70 SI70-SLS2

Compound Number: SI70-SLS2

Colour: Rust

ASTM D2000 M2GE705 A19 B37 EA14 EO16 EO36 F19 G11

Conformity inspections for food contact acc. to 21 CFR § 177.2600 FDA; NSF 61

Properties	Testing Method	Testing Parameter	Value	Units
Hardness	ASTM D 2240	–	70±5	Shore A
Tensile strength	ASTM D 412	–	6.6	N/mm ²
Ultimate elongation	ASTM D 412	–	229	%
Tear resistance	ASTM D 624 B	–	17.9	N/mm
Low temp. resistance	ASTM D 2137 A	3 min. / -55°C	pass	–
	ASTM D 1329	TR10	-42.8	°C
Compression set	ASTM D 395 B	22 h / 175 °C	24.3	%
Specific Gravity	ASTM 1817	–	1.31±0.03	g/cm ³

Changes of properties after aging acc. to ASTM D 471/573 in:

Medium	% Volume	Hardness	% Tensile Strength	% Ultimate Elongation
70 h / 225 °C	–	-2	-11	-28
Water 70 h / 100 °C	+1.3	-2	-9	+15
ASTM IRM 901 Oil 70 h / 150 °C	+4.1	-4	+3	-28
ASTM IRM 903 Oil 70 h / 150 °C	+34.1	-19	-14	-18

Compliant with the EU-directives 2000/53/EC (ELV), 2011/65/EC (RoHS) [2002/95/EC (RoHS)] and 2006/122/EC (PFOS). Products made of this compound are manufactured according to 2023/2006/EG (GMP)

The results displayed in this data sheet were obtained on standard test specimens following standard test procedures. Comparisons with results obtained on finished products, e.g. O-Rings, could lead to other results due to differences in geometry and manufacturing processes. These other results do therefore not automatically contravene the data of this sheet. The evaluation of parts prior to their use in order to ensure their suitability for the intended application is subject to the end user's responsibility.