

Sealmax Style 955 – Silicone Rubber (Food Grade)



Applications:

Silicone Rubber (Food Grade) is a high-purity, non-toxic elastomer specifically formulated for applications requiring direct contact with food and potable water. It exhibits excellent thermal stability, flexibility and resistance to ageing, while remaining odorless, tasteless and physiologically inert.

The material complies with FDA 21 CFR 177.2600 and applicable food-contact regulations, making it suitable for hygienic and sanitary environments. It maintains elasticity over a wide temperature range and offers good to ozone, UV radiation and weathering.

Silicone rubber gaskets and seals are particularly suitable for applications involving extreme temperatures, low pressure and static sealing where long service life and material stability are required.

TECHNICAL SPECIFICATIONS

SR.NO.	PROPERTIES	TEST METHOD	VALUE FPS UNITS	TEST METHOD REFERENCE	VALUES METRIC UNITS
1.	SPECIFIC GRAVITY	DIN 53508	1.17 ± 0.05	ASTM D297	1.17 ± 0.05
2.	HARDNESS	DIN 53505	60 ± 5 Sh A	ASTM D2240	60 ± 5 Sh A
3.	TENSILE STRENGTH (min)	DIN 53504	1136 PSI	ASTM D412	80 kg/cm ²
4.	ELONGATION AT BREAK (min)	DIN 53504	300%	ASTM D412	300%
5.	COMPRESSION SET (70°C/24 hrs/25% compression) (max)	DIN 53517	40%	ASTM D395 METHOD B	40%
6.	TEAR RESISTANCE (Angular) min	DIN 53515	112 Lbs/Inch	ASTM D624	20 Kg/cm
7.	CHANGE IN PROPERTIES AFTER				
8.	HEAT AGEING FOR (72 hrs. AT 70 °C)			ASTM D 573	
9.	--- HARDNESS (Pts)		+ 3 (Max)		+ 3 (Max)
10.	--- TENSILE STRENGTH (%)		+ 5 / - 5		+ 5 / - 5
11.	--- ELONGATION AT BREAK (%)		+ 5 / - 5		+ 5 / - 5
12.	VOLUME SWELL: AT 70°C FOR 72 HRS			ASTM D 471	
13.	IN IRM OIL NO.901		NOT RECOMMENDED		NOT RECOMMENDED
14.	IN IRM OIL NO.902		NOT RECOMMENDED		NOT RECOMMENDED
15.	IN IRM OIL NO.903		NOT RECOMMENDED		NOT RECOMMENDED
16.	CHEMICAL RESISTANCE				
17.	--- OZONE		EXCELLENT	ASTM D 1149	EXCELLENT
18.	--- DILUTE ACIDS AND BASES		EXCELLENT		EXCELLENT
19.	--- CONCENTRATED ACIDS AND BASES		EXCELLENT		EXCELLENT
20.	--- OILS		FAIR		FAIR
21.	--- SOLVENTS		FAIR		FAIR
22.	TEMPERATURE RANGE		-60° to + 220° C		-60° to + 220° C
23.	COLOR		Translucent / Red		Translucent / Red

All technical data and recommendations are given based on our experience. However, we assume no liability whatsoever. All data and values must be verified by the user, as the effectiveness of a seal can only be accurately judged by evaluating all data parameters directly on site. The stated parameters of all packing styles are approximate and may be influenced if occurring together. We suggest you to contact us in case of any special applications.



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