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# Silicone 70 (FDA)

## Silicone

Compliant to CFR 21.177-2600

Standard Colour: **Reddish brown**

Service temperature: -55°C to +225°C

ASTM D2000 M7GE705 A19 B37 EA14 EO16 EO36 F19

Physical properties	Unit	Testing method	Requirement	Result
Hardness	Shore A	D2240	70 ± 5	69
Tensile strength	psi	D412	725	886
Elongation	%	D412	150	197
Compression set				
22hrs at 175°C	%	D395	30	17.65

Changes to properties after ageing acc. To ASTM D471/573 in:

Test parameter	Hardness points %	Tensile strength %	Elongation %	Volume %
Heat				
70hrs at 100°C	+3	+0.23	-27.41	
Water				
70hrs at 100°C	+1			+1.45
No.1 oil				
70hrs at 150°C	-1	-0.23	-8.12	+5.51
No.3 oil				
70hrs at 150°C	-14			+35.71

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.