



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

Report Number: 346545

Test Date: 7/27/2018

Title: Evaluation of Parker Compound S0604-70

Elastomer Type: Silicone (VMQ)

Purpose: To obtain typical test data

Specification: ASTM D2000 M6GE703 A19 B37 EO16 EO36

Color: Rust

Recommended Temperature Range: -65°F to 450°F

Recommended For: Animal, Vegetable oil, grease, high molecular weight chlorinated aromatic hydrocarbons (including flame resistant insulators, and coolant for transformers), moderate weather resistance, diluted salt solutions, and ozone.

Not Recommended For: Superheated water/steam over 250°F, acids and alkalis, low molecular weight chlorinated hydrocarbons, hydrocarbon based fuels, aromatic hydrocarbons (benzene, toluene), and low molecular weight silicone oils.

Additional Approvals: AMS 3304
AMS 3357
A-A-59588 Class 2a, 2b, grade 70
UL Approval

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The recording of false, fictitious, or fraudulent statements or entries in the report may be punishable
as a felony under federal law."*

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results</u>
Hardness, Shore A, pts	ASTM D2240	70 ± 5	72
Tensile Strength, psi, Min	ASTM D412	435	1141
Ultimate Elongation, % Min	ASTM D412	60	188
Specific Gravity	ASTM D297	1.43 ± 0.03	1.41
<u>Compression Set</u> <u>22 hrs @ 175°C (347°F) (Plied)</u>			
Percent of Original Deflect, Max	ASTM D395 Method B	30	10
<u>Dry Heat Resistance</u> <u>70 hrs @ 225°C (437°F)</u>	ASTM D573		
Hardness Change, pts.		+10	+4
Tensile Strength Change, %		-25	-16
Elongation Change, %		-30	-18
<u>Fluid Immersion</u> <u>IRM 901 Resistance</u> <u>70 hrs @ 150°C (302°F)</u>	ASTM D471		
Hardness Change, pts.		0 to -15	-4
Tensile Strength Change, %		-20	-2
Elongation Change, %		-20	-2
Volume Change, %		0 to +10	4
<u>Fluid Immersion</u> <u>IRM 903 Resistance</u> <u>70 hrs @ 150°C (302°F)</u>	ASTM D471		
Hardness Change, pts.		-40	-23.9
Volume Change, %		+60	34