



# COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

## MATERIAL REPORT

Report Number: 346545

Test Date: 7/27/2018



CONTACT US

**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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as a felony under federal law."*

<b><u>Original Physical Properties</u></b>	<b><u>Test Method</u></b>	<b><u>Spec Limits</u></b>	<b><u>Results</u></b>
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
<b><u>Compression Set</u></b>			
<b><u>22 hrs @ 175°C (347°F) (Plied)</u></b>			
Percent of Original Deflect, Max	ASTM D395 Method B	30	10
<b><u>Dry Heat Resistance</u></b>	ASTM D573		
<b><u>70 hrs @ 225°C (437°F)</u></b>			
Hardness Change, pts.		+10	+4
Tensile Strength Change, %		-25	-16
Elongation Change, %		-30	-18
<b><u>Fluid Immersion</u></b>	ASTM D471		
<b><u>IRM 901 Resistance</u></b>			
<b><u>70 hrs @ 150°C (302°F)</u></b>			
Hardness Change, pts.		0 to -15	-4
Tensile Strength Change, %		-20	-2
Elongation Change, %		-20	-2
Volume Change, %		0 to +10	4
<b><u>Fluid Immersion</u></b>	ASTM D471		
<b><u>IRM 903 Resistance</u></b>			
<b><u>70 hrs @ 150°C (302°F)</u></b>			
Hardness Change, pts.		-40	-23.9
Volume Change, %		+60	34