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

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