



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

Report Number: 87005

Test Date: 5/30/2012

Title: Evaluation of Parker Compound S0604-70

Elastomer Type: Silicone (VMQ, PVMQ)

Purpose: Testing to AMS3304

Specification: AMS3304

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
MIL-G-21569 Class 2
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."*

Original Physical Properties

	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results</u>
Hardness, Shore A, pts	ASTM D2240	70 ± 5	70
Tensile Strength, psi, Min	ASTM D412	650	1214
Ultimate Elongation, % Min	ASTM D412	125	190
Specific Gravity	ASTM D297	1.43 ± 0.03	1.41

Compression Set**70 hrs @ 150°C (302°F)**

Percent of Original Deflect, Max	ASTM D395 Method B	25	16
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Dry Heat Resistance

ASTM D573

70 hrs @ 225°C (437°F)

Hardness Change, pts.		±10	+3
Tensile Strength Change, %		-25	-10
Elongation Change, %		-40	-16
Bend (flat)		No cracking	No Cracking

Fluid Immersion

ASTM D471

IRM 901, 70 hrs @ 150°C (302°F)

Hardness Change, Shore A, pts.		-15 to +5	-4
Tensile Strength Change, %		-20	-5
Ultimate Elongation Change, %		-15	-13
Volume Change		+15	+3
Decomposition		None	None
Surface Tackiness		None	None

Tear Strength, Die B

ASTM D624

Pounds force per inch, min		25	84
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Low Temp Brittleness

ASTM D2137

Nonbrittle after 3 min @ -65°C (-85°F)		Pass	Pass
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