COMPOUND DATA SHEET

Parker O-Ring Division, North America

MATERIAL REPORT

LTR Report Number: 95609
Date: 7/11/2013

Title: Evaluation of Parker Compound S1224-70

Elastomer Type: Silicone (VMQ, PVMQ)

Purpose: To obtain typical test data.

Specification: ASTM D2000 M7GE705 A19 B37 EA14 E016 E036 F19 G11 Z1 (Specific Gravity)

Color: Rust

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

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

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

Additional Approvals:
AMS 3304
AMS 3357
MIL-G-21569 Class 2
A-A-59588 Class 2a, 2b, Grade 70

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Ky 40509
(859) 269-2351

REPORT DATA

Original Physical Properties	Test Method	Spec Limits	Test Results
Hardness, Shore A, pts.	ASTM D2240	70 ±5	70
Tensile Strength, PSI	ASTM D412	725	1094
Ultimate Elongation, %	ASTM D412	150	217
(Z1) Specific Gravity	ASTM D297	report	
(B37) Compression Set (Plied)			
22 hrs. @ 347°F			
Percent of Original Deflection, Max	ASTM D395 Method B	30	24
(A19) Heat Age			
70 hrs. @ 437°F			
Hardness Change, pts.	ASTM D573	+10	+5
Tensile Strength Change, %		-25	-21
Ultimate Elongation Change, %		-30	-20
(EA14) Fluid Resistance			
Water, 70 hrs @ 212°F			
Hardness Change, pts.	ASTM D471	± 5	+4
Volume Change, %		± 5	-1
(E016) Fluid Resistance			
IRM 901, 70 hrs @ 302°F			
Hardness Change, pts.	ASTM D471	-0 to -15	-5
Tensile Strength Change, %		-20	+6
Ultimate Elongation Change, %		-20	+8
Volume Change, %		0 to +15	+4
(E036) Fluid Resistance			
IRM 903, 70 hrs @ 302°F			
Hardness Change, pts.	ASTM D471	-40	-22
Volume Change, %		+60	+35
(G11) Tear Resistance			
kN/m, min.	ASTM D624	9	21
(F19) Low Temperature Resistance			
Nonbrillte after 3 min @ -67°F	ASTM D1329	pass/fail	Pass

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Ky 40509
(859) 269-2351