COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

Report Number: 120111

2/14/2017

Title: Evaluation of Parker Compound

Elastomer Type: Chloroprene (CR) C1124-70

Purpose: To obtain typical test data.

Specification: ASTM D2000 M3BC707 A14 B14 EO14 EO34 F17 G21 Z1 = TR-10

Color: Black

Recommended Temperature Range: -60°F to 250°F

Recommended For: Paraffin based mineral oil with low DPI, silicone oil and grease, water and water solvents at lower temperatures, refrigerants, ammonia, carbon dioxide, improved ozone, weather, and aging resistance when compared to nitrile, limited compatibility with naphthalene based mineral pol (IRM 902 and IRM 903) and glycol based brake fluids.

Not Recommended For: Aromatic hydrocarbons (benzene), chlorinated hydrocarbons (trichloroethylene), and polar solvents (ketones, esters, ethers)

Additional Approvals: AMS 3209

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REPORT DATA

Original Physical Properties	Test Method	Spec Limits	Results
Hardness, Shore A, pts.	ASTM D2240	70 ± 5	70
Tensile Strength, PSI (Mpa)	ASTM D412	1015 (7)	2452 (16.9)
Ultimate Elongation, %	ASTM D412	200	227
(B14) Compression Set (Plied)			
22 hrs. @ 212°F (100°C)			
Percent of Original Deflection, Max	ASTM D395 Method B	35	12
(A14) Heat Age			
70 hrs. @ 212°F (100°C)			
Hardness Change, pts.	ASTM D471	± 10	0
Tensile Strength Change, %		- 30	-4
Ultimate Elongation Change, %		- 30	+3
Volume Change, %		-10 to +15	- 3
(E034) Fluid Resistance			
IRM 903, 70 hrs. @ 212°F (100°C)			
Tensile Strength Change, %	ASTM D471	- 60	- 38
Ultimate Elongation Change, %		- 50	- 21
Volume Change, %		+100	+40
(G21) Tear Strength, Die C			
kN/m, min	ASTM D624	22	23

(F17) Low Temperature Brittleness

Nonbrittle after 3 min. @ 40°C	ASTM D2137	PASS	PASS

(Z1) Low Temperature

TR-10, °C	ASTM D1329	REPORT	- 48