



Compound Data Sheet
Parker O-Ring & Engineered Seals Division United States

MATERIAL REPORT

Report Number: 119275
12/13/2016

Title: Evaluation of Parker Compound

Elastomer Type: Butyl (IIR) B0318-70

Purpose: To obtain typical test data.

Specification: ASTM D2000 M4AA708 A13 B33 EA14 F17

Color: Black

Recommended Temperature Range: -75°F to 250°F

Recommended For: Salt solutions, polar solvents (alcohols, ketones, and esters), hot water and steam up to 250°F, brake fluids with glycol base (DOT 3 and DOT 4), many acids, poly-glycol based hydraulic fluids (HFC fluids), phosphate-ester bases (HFD-R fluids), ozone, aging, and weather resistance.

Not Recommended For: Mineral oils and grease, fuels, chlorinated hydrocarbons

Additional Approvals: AMS 3238



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REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results</u>
Hardness, Shore A, pts.	ASTM D2240	70 ± 5	75
Tensile Strength, PSI (Mpa)	ASTM D412	1160 (8)	2086 (14.3)
Ultimate Elongation, %	ASTM D412	200	341
(A13) Heat Age			
<u>70 hrs. @ 158°F (70°C)</u>			
Hardness Change, pts.	ASTM D573	+10	0
Tensile Strength Change, %		-25	+1
Ultimate Elongation Change, %		-25	- 8
(B33) Compression Set (Plied)			
<u>22 hrs. @ 158°F (70°C)</u>			
Percent of Original Deflection, Max	ASTM D395 Method B	35	16
(EA14) Fluid Resistance			
<u>Water, 70 hrs. @ 212°F (100°C)</u>			
Volume Change, %	ASTM D471	+10	+3
(F17) Low Temperature Brittleness			
Nonbrittle after 3 min @ -40°C	ASTM D2137	Pass	Pass
(G21) Tear Strength, Die B			
kN/m. min	ASTM D624	26	31