



## Compound Data Sheet

Parker O-Ring & Engineered Seals Division United States

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### 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
<b>(A13) Heat Age</b>			
<b><u>70 hrs. @ 158°F (70°C)</u></b>			
Hardness Change, pts.	ASTM D573	+10	0
Tensile Strength Change, %		-25	+1
Ultimate Elongation Change, %		-25	- 8
<b>(B33) Compression Set (Plied)</b>			
<b><u>22 hrs. @ 158°F (70°C)</u></b>			
Percent of Original Deflection, Max	ASTM D395 Method B	35	16
<b>(EA14) Fluid Resistance</b>			
<b><u>Water, 70 hrs. @ 212°F (100°C)</u></b>			
Volume Change, %	ASTM D471	+10	+3
<b><u>(F17) Low Temperature Brittleness</u></b>			
Nonbrittle after 3 min @ -40°C	ASTM D2137	Pass	Pass
<b><u>(G21) Tear Strength, Die B</u></b>			
kN/m. min	ASTM D624	26	31