



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

MTR: 268957

02/27/2016

Title: Evaluation of Parker Compound E0652-90 in accordance with ASTM D2000

Elastomer Type: EPDM

Purpose: To show compliance with all phases of the callout.

Specification: ASTM D2000 M2 AA907 A13 EA14 Z1 Z2

Color: Black

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

Recommended For: Hot water and steam, glycol based brake fluid, many organic and inorganic acids, cleaning agents, soda and potassium alkalis, phosphate-ester based hydraulic fluids, silicone oil and grease, polar solvents, ozone, aging and weather resistance

Not Recommended For: Mineral oil products (oils, greases and fuels), hydrocarbon-based substances

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as a felony under federal law."*

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results</u>
Hardness, Shore A, pts	ASTM D2240	90 ± 5	90
Tensile Strength, psi, Min	ASTM D412	1015	2006
Ultimate Elongation, % Min	ASTM D412	100	159
<u>(A13) Heat Age - 70 hrs @ 158°F (70°C)</u>			
Hardness Change, pts.	ASTM D573	±15	+1
Tensile Strength Change, %, Max		±30	+3
Ultimate Elongation Change, %, Max		-50	+1
<u>(Z1) Compression Set - 22 hrs @ 158°F (70°C)</u>			
Percent of Original Deflect, Max	ASTM D395 Method B	25	13
<u>Fluid Resistance</u>			
<u>Water. 70 HRS. @ 212°F (100°C)</u>			
Volume Change, %	ASTM D471	+10	+4
<u>Low Tempature Brittleness</u>			
Nonbrittle after 3 min. @ -55°C	ASTM D2137	PASS	PASS