



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division North America

MATERIAL REPORT

Report Number: 112228
1/20/2016

Title: Evaluation of Parker Compound E0962-90

Elastomer Type: Ethylene-Propylene Rubber (EPR, EPDM)

Purpose: To obtain typical test data.

Specification: ASTM D2000 M7CA910 A25 B35 EA14 F18

Color: Black

Recommended Temperature Range: -70°F to 250°F

Recommended For: Hot water and steam up to 500°F, glycol based brake fluids (DOT3 and DOT4), silicone based brake fluids (DOT5), many organic and inorganic acids, cleaning agents, sodium and potassium alkalis, many polar solvents (alcohols, ketones, esters), ozone, aging and weather resistant.

Not Recommended For: Mineral oil products (oils, greases, and fuels)

REPORT DATA

<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 (Mpa)	ASTM D412	1450 (10)	2933
Ultimate Elongation, %	ASTM D412	100	115
(A25) Heat Age			
<u>70 hrs. @ 257°F (125°C)</u>			
Hardness Change, pts.	ASTM D573	±10	0
Tensile Strength Change, %		-20	+3
Ultimate Elongation Change, %		-40	-6
(B35) Compression Set (Plied)			
<u>22 hrs. @ 257°F (125°C)</u>			
Percent of Original Deflection, Max	ASTM D395 Method B	70	16
Compression Set (Basic Requirement)			
<u>22 hrs. @ 212°F (100°C)</u>			
Percent of Original Deflection, Max	ASTM D395 Method B	60	17
(EA14) Fluid Resistance			
<u>Water, 70 hrs @ 212°F (100°C)</u>			
Volume Change, %	ASTM D471	± 5	+1
(F18) Low Temperature Brittleness			
Nonbrittle after 3 min. @ -58°F (-50°C)	ASTM D2137	Pass	Pass