



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division (OES) North America

MATERIAL REPORT

LTR: 104630

Title: Evaluation of Parker Compound E0540-80

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

Purpose: To obtain typical test data.

Specification: ASTM D2000 M5CA815 A25 B35 EA14 F19

Color: Black

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

Recommended For: Hot water and Steam up to 300°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)

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REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Test Results</u>
Hardness, Shore A, pts.	ASTM D2240	80 ± 5	77
Tensile Strength, psi. min	ASTM D412	1500	2258
Ultimate Elongation, %	ASTM D412	150	223

(A25) Dry Heat Resistance, 70 hrs. @ 125°C

Hardness Change, pts	ASTM D865	+ 10	+ 2
Tensile Change, %		- 20	- 8
Elongation Change, %		- 40	- 3

(B35) Compression Set (Plied), 22 hrs. @ 125°C

Percent of Original Deflection, max	ASTM D395 Method B	50	10
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(EA14) Fluid Immersion, H2O, 70 hrs. @ 125°C

Volume Change %	ASTM D471	± 5	+ 2
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(F19) Low Temperature Brittleness

Nonbrittle after 3 min @ 55°C	ASTM D2137	report	Pass
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