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# MATERIAL REPORT

**TITLE:** Evaluation of Parker Compound E1100-50 when immersed in water glycol solution.

**PURPOSE:** To obtain general data for E1100-50.

Recommended temperature limits: -70°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



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**Compound Data Sheet**  
Parker O-Ring Division United States

**REPORT DATA**

E1100-50 2-214 o-rings

Test Results

Basic Physical Properties

Hardness, Shore A, pts.	55
Tensile Strength, psi	1749
Elongation, %	550
Modulus @ 100%	165
Specific Gravity	1.06

Dry Heat Resistance, 70 H @ 257 °F

Hardness Change, pts.	+8
Tensile Change, %	+18
Elongation Change, %	-14.5

Fluid Immersion, ASTM #1 Oil, 70 H @ 302 °F

Hardness Change, pts.	-15
Tensile Change, %, max	-75
Elongation Change, % max.	-45
Volume Change, % max.	+126

Fluid Immersion, ASTM #3 Oil, 70 H @ 257 °F

Hardness Change, pts.	-15
Tensile Change, %, max	-85
Elongation Change, % max.	-59
Volume Change, % max.	+185

Fluid Age, 50/50 Water Glycol, 70 H @ 212 °F

Hardness Change, pts.	-2
Tensile Change, %, max	-9
Elongation Change, % max.	-17
Volume Change, % max.	-1.3

Compression Set, 70 H @ 212 °F

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Low Temperature Resistance

TR-10, °F	-45°F
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