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Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

Date: 01/10/1991

TITLE: Evaluation of Parker Compound EA454-50 (3575)

PURPOSE: To obtain general data for EA454 -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

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40509
(859) 269-2351



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REPORT DATA

	<u>EA454-50 Test Platen</u> <u>Results</u>
<u>Basic Physical Properties</u>	
Hardness, Shore A, pts.	54
Tensile Strength, psi	1595
Elongation, %	400
Modulus @ 100%, psi	290
Specific Gravity	1.1
<u>Dry Heat Resistance, 70 H @ 302 °F</u>	
Hardness Change, pts.	+5
Tensile Change, %	+8
Elongation Change, %	-6
<u>Compression Set, 22 H @ 302 °F</u>	
Percent of original deflection (plied)	12
<u>Fluid Immersion, Water, 70 H @ 212 °F</u>	
Hardness Change, pts.	+2
Tensile Change, %	-5
Elongation Change, %	-3
Volume Change, %	+3
<u>Fluid Immersion, 50% Ethylene Glycol / 50% Water, 70 H @ 257 °F</u>	
Volume Change, %	+1
<u>Fluid Immersion, Hyjet 4A+, 70 H @ 250 °F</u>	
Volume Change, %	+10
<u>Fluid Immersion, DOT 3 Brake Fluid, 70 H @ 257 °F</u>	
Volume Change, %	+2
<u>Low Temperature Brittleness</u>	
TR-10, °F	-72
<u>Low Temperature Brittleness</u>	
Nonbrittle after 3 min. @ -67 °F	Passed

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