



MATERIAL REPORT

REPORT NUMBER:

DATE: 6/14/2001

TITLE: Evaluation of Parker Compound KA174-75 (21107)
PURPOSE: To obtain general information.

Recommended temperature limits: -25⁰F to 300/325⁰F

Recommended For

Petroleum based hydraulic oil, motor oil, transmission fluid,
grease

R134a

Water/glycol/steam

HFA, HFB, and HFC fluids

Ozone, aging, and weather resistance

Not Recommended For

Polar solvents (ketones and esters)

Strong acids

Chlorinated hydrocarbons

Auto and aircraft brake fluids



REPORT DATA

	Test Results
Original Physical Properties, ASTM D1414, D2240	
Hardness, Shore A, pts.	76
Tensile Strength, psi	2700
Ultimate Elongation, %	200
Modulus @ 100%, psi	1100
Compression Set, ASTM D395 Method B	
Percent of Original Deflection	
70 hrs. @ 302°F, 2-214 o-ring	41
70 hrs. @ 302°F, button	14
168 hrs. @ 302°F, 2-214 o-ring	60
Dry Heat Resistance, ASTM D573	
(70 hrs. @ 302°F)	
Hardness Change, pts.	+10
Tensile Change, %	+7
Elongation Change, %	-11
Dry Heat Resistance, ASTM D573	
(70 hrs. @ 350°F)	
Hardness Change, pts.	+10
Tensile Change, %	-7
Elongation Change, %	-46
Dry Heat Resistance, ASTM D573	
(3 months @ 300°F)	
Hardness Change, pts.	+20
Tensile Change, %	-38
Elongation Change, %	-88
Fluid Immersion, ASTM D471	
ASTM #1 Oil, (70 hrs. @ 302°F)	
Hardness Change, pts.	+1
Tensile Change, %	+2
Elongation Change, %	-4
Volume Change, %	+1
Fluid Immersion, ASTM D471	
ASTM #3 Oil, (70 hrs. @ 302°F)	
Hardness Change, pts.	-7
Tensile Change, %	-6
Elongation Change, %	0
Volume Change, %	+23
Fluid Immersion, ASTM D471 Test	
NO. 2 Diesel Fuel, (70 hrs. @ 302°F) Results	
Hardness Change, pts.	-8
Tensile Change, %	-20
Elongation Change, %	0
Volume Change, %	+35



Compound Data Sheet
Parker O-Ring Division United States

Fluid Immersion, ASTM D471

Distilled Water, (70 hrs. @ 212°F)

Hardness Change, pts.	+4
Tensile Change, %	+4
Elongation Change, %	0
Volume Change, %	+3

Ozone Resistance, ASTM D1171

70 hrs., 100 pphm @ 100°F, 20% Stretch

No Cracks

Low Temperature, ASTM D1329

TR-10, °F (o-ring)

-7.6