



MATERIAL REPORT

REPORT NUMBER:

DATE: 1/16/2002

TITLE: Evaluation of Parker Compound KA170-50 (21105)
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 D412, D2240	
Hardness, Shore A, pts.	54
Tensile Strength, psi	2195
Ultimate Elongation, %	557
Modulus @ 100%, psi	204
Compression Set, ASTM D395 Method B (22 hrs. @ 302°F)	
Percent of Original Deflection (½" buttons)	10
Dry Heat Resistance, ASTM D573 (70 hrs. @ 302°F)	
Hardness Change, pts.	+8
Tensile Change, %	-11
Elongation Change, %	-8
Fluid Immersion, ASTM D471 ASTM #1 Oil, (70 hrs. @ 302°F)	
Hardness Change, pts.	-1
Tensile Change, %	-9
Elongation Change, %	-24
Volume Change, %	-2
Fluid Immersion, ASTM D471 IRM 903 Oil, (70 hrs. @ 302°F)	
Hardness Change, pts.	-10
Tensile Change, %	-20
Elongation Change, %	-21
Volume Change, %	+20
Low Temperature Brittleness, ASTM D2137	
Nonbrittle after 3 min. @ -18°C	Passed