



# MATERIAL REPORT

REPORT NUMBER:

DATE: 7/1/2001

**TITLE:** Evaluation of Parker Compound KB190-50 (21705)  
**PURPOSE:** To obtain general information.

Recommended temperature limits: -25<sup>0</sup>F to 300/325<sup>0</sup>F

Recommended For

Automotive applications

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

	<u>Test Results</u>
<b>Original Physical Properties, ASTM D412, D2240</b>	
Hardness, Shore A, pts.	52
Tensile Strength, psi	1073
Ultimate Elongation, %	288
<b>Compression Set, ASTM D395 Method B (22 hrs. @ 302°F)</b>	
Percent of Original Deflection (plied)	22
Percent of Original Deflection (½" buttons)	16
<b>Dry Heat Resistance, ASTM D573 (70 hrs. @ 257°F)</b>	
Hardness Change, pts.	+4
Tensile Change, %	+3
Elongation Change, %	-8
<b>Fluid Immersion, ASTM D471 ASTM #1 Oil, (70 hrs. @ 302°F)</b>	
Hardness Change, pts.	+3
Tensile Change, %	+10
Elongation Change, %	-4
Volume Change, %	-7
<b>Fluid Immersion, ASTM D471 IRM 903 Oil, (70 hrs. @ 302°F)</b>	
Hardness Change, pts.	-2
Tensile Change, %	-24
Elongation Change, %	-13
Volume Change, %	+7
<b>Low Temperature Brittleness, ASTM D2137</b>	
Nonbrittle after 3 min. @ -13°F	Passed