



MATERIAL REPORT



REPORT NUMBER:
DATE: 7/1/2001

CONTACT US

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

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

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