MATERIAL REPORT

REPORT NUMBER:
DATE: 7/1/2001

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

Recommended temperature limits: -25^0F to $300/325^0$F

Recommended For
Automotive applications
Petroleum based hydraulic oil, motor oil, transmision 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

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40509
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Compound Data Sheet
Parker O-Ring Division United States

REPORT DATA

	Test Results
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. @ 302ºF)	
Percent of Original Deflection (plied)	22
Percent of Original Deflection (½" buttons)	16
Dry Heat Resistance, ASTM D573 (70 hrs. @ 257ºF)	
Hardness Change, pts.	+4
Tensile Change, %	+3
Elongation Change, %	-8
Fluid Immersion, ASTM D471 ASTM #1 Oil, (70 hrs. @ 302ºF)	
Hardness Change, pts.	+3
Tensile Change, %	+10
Elongation Change, %	-4
Volume Change, %	-7
Fluid Immersion, ASTM D471 IRM 903 Oil, (70 hrs. @ 302ºF)	
Hardness Change, pts.	-2
Tensile Change, %	-24
Elongation Change, %	-13
Volume Change, %	+7
Low Temperature Brittleness, ASTM D2137	
Nonbrittle after 3 min. @ -13ºF	Passed

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