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Compound Data Sheet  
Parker O-Ring Division United States

# MATERIAL REPORT

REPORT NUMBER:

DATE: 9/12/2002

**TITLE:** Evaluation of Parker Compound KB181-60 (21926)  
**PURPOSE:** To obtain general information.

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

Recommended For

Diesel 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

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## REPORT DATA

	<b>Test Results</b>
<b>Original Physical Properties, ASTM D412, D2240</b>	
Hardness, Shore A, pts.	61
Tensile Strength, psi	1711
Ultimate Elongation, %	267
<b>Compression Set, ASTM D395 Method B (70 hrs. @ 275°F)</b>	
Percent of Original Deflection (½" buttons)	14
<b>Dry Heat Resistance, ASTM D573 (70 hrs. @ 302°F)</b>	
Hardness Change, pts.	+3
Tensile Change, %	+17
Elongation Change, %	-18
<b>Fluid Immersion, ASTM D471 ASTM #1 Oil, (70 hrs. @ 302°F)</b>	
Hardness Change, pts.	-4
Tensile Change, %	-8
Elongation Change, %	-6
Volume Change, %	+5
<b>Fluid Immersion, ASTM D471 IRM 903 Oil, (70 hrs. @ 302°F)</b>	
Hardness Change, pts.	-10
Tensile Change, %	-12
Elongation Change, %	-11
Volume Change, %	+27
<b>Fluid Immersion, ASTM D471 Diesel Engine Coolant, (70 hrs. @ 300°F)</b>	
Hardness Change, pts.	-3
Tensile Change, %	+18
Elongation Change, %	+3
Volume Change, %	+3
<b>Fluid Immersion, ASTM D471 Diesel Fuel, (70 hrs. @ RT)</b>	
Hardness Change, pts.	-12
Volume Change, %	+38