



MATERIAL REPORT

REPORT NUMBER:

DATE: 8/22/97

TITLE: Evaluation of Parker Compound N1173-70

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

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	<u>Platen Results</u>
<u>Basic Physical Properties</u>	
Hardness, Shore A	74
Tensile Strength, MPa	22.8
Elongation, %	206
Modulus @ 100%, MPa.	9.1
25% Compressive Modulus, Mpa	4.0
<u>Heat Aging, ASTM D573, 70 H @ 150 °C</u>	
Hardness Change, pts	+3
Tensile Change, %	-4
Elongation Change, %	-18
Surface Condition	No change
<u>Fluid Immersion, ASTM #1 Oil, ASTM D471, 70 H @ 150 °C</u>	
Hardness Change, pts	-1
Tensile Change, %	+11
Elongation Change, %	+10
Volume Change, %	+2.0
<u>Fluid Immersion, IRM 903 Oil, ASTM D471, 70 H @ 150 °C</u>	
Hardness Change, pts	-9
Tensile Change, %	-13
Elongation Change, %	-11
Volume Change, %	+18.5
<u>Fluid Immersion, Diesel #2, ASTM D471, 70 H @ 65 °C</u>	
Hardness Change, pts	-10
Tensile Change, %	-15
Elongation Change, %	-14
Volume Change, %	+28.3