



MATERIAL REPORT

DATE: 09/29/98

TITLE: Evaluation of Parker's Compound NF153-70

CONCLUSION: Compound NF153-70 meets or exceeds all requirements of subject specification.

Recommended Temperature Range: -35 to 180F

Recommended for: petroleum oils, water (up to 180F),
Salt & Alkali solutions, weak acids

Not Recommended for: aromatic fuels, strong acids,
glycols, ozone, polar solvents

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REPORT DATA

<u>Original Physical Properties, ASTM D1414, D2240</u>	<u>NF153-70 Test Results</u>
Hardness, Shore A, pts.	71
Tensile Strength, psi	2000
Ultimate Elongation, %	219
Modulus @ 100%, psi	1000
Compression Set, ASTM D395 Method B (70 hrs. @ 212°F)	
Percent of Original Deflection	40
Dry Heat Resistance, ASTM D573, platens (70 hrs. @ 212°F)	
Hardness Change, pts.	+8
Tensile Change, %	+10
Elongation Change, %	-22
Fluid Immersion, ASTM D471 Fuel A, (70 hrs. @ RT)	
Hardness Change, pts.	-2
Tensile Change, %	-2
Elongation Change, %	0
Volume Change, %	-2
Fluid Immersion, ASTM D471 Fuel B, (70 hrs. @ RT)	
Hardness Change, pts.	-10
Tensile Change, %	-19
Elongation Change, %	-5
Volume Change, %	+13
Fluid Immersion, ASTM D471 90% Non-Leaded Gasoline / 10% Ethanol, (70 hrs. @ RT)	
Hardness Change, pts.	-15
Tensile Change, %	-36
Elongation Change, %	-42
Volume Change, %	+31
Fluid Immersion, ASTM D471 ASTM #1 Oil, (70 hrs. @ 212°F)	
Volume Change, %	-14
Fluid Immersion, ASTM D471 ASTM #3 Oil, (70 hrs. @ 212°F)	
Volume Change, %	-5
Fluid Immersion, ASTM D471 Test Distilled Water, (70 hrs. @ 212°F) Results	
Volume Change, %	+5
Low Temperature, ASTM D1329 TR-10, °F	
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