



# MATERIAL REPORT

DATE: 04/12/94

**TITLE:** Evaluation of Parker's Compound NL153-70

**CONCLUSION:** Compound NL153-70 meets or exceeds all requirements of subject specification.

**Recommended Temperature Range:** -30 to 250F

**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>NL153-70 Test Results</u>
Hardness, Shore A, pts.	69
Tensile Strength, psi	2200
Ultimate Elongation, %	350
Modulus @ 100%, psi	456
<b>Compression Set, ASTM D395 Method B (70 hrs. @ 257°F)</b>	
% Deflection	39
<b>Dry Heat Resistance, ASTM D573 (70 hrs. @ 250°F)</b>	
Hardness Change, pts.	+9
Tensile Change, %	0
Elongation Change, %	-38
<b>Fluid Immersion, ASTM D471 ASTM #1 Oil, (70 hrs. @ 302°F)</b>	
Hardness Change, pts.	+3
Tensile Change, %	-8
Elongation Change, %	-24
Volume Change, %	-5
<b>Fluid Immersion, ASTM D471 ASTM #3, (70 hrs. @ 302°F)</b>	
Hardness Change, pts.	-5
Tensile Change, %	-10
Elongation Change, %	0
Volume Change, %	+16
<b>Fluid Immersion, ASTM D471 Distilled Water, (70 hrs. @ 212°F)</b>	
Hardness Change, pts.	0
Tensile Change, %	-8
Elongation Change, %	-12
Volume Change, %	0
<b>Low Temperature Brittleness, ASTM D1329</b>	
TR-10, °F	-10