



MATERIAL REPORT

DATE: 06/28/02

TITLE: Evaluation of Parker's Compound NL151-50

CONCLUSION: Compound NL151-50 meets or exceeds all requirements of subject specification.

Recommended Temperature Range: -55 to 225F

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>NL151-50 Test Results</u>
Hardness, Shore A, pts.	54
Tensile Strength, psi	1641
Ultimate Elongation, %	323
Compression Set, ASTM D395 Method B (22 hrs. @ 212°F)	
Percent of Original Deflection (½" buttons)	14
Dry Heat Resistance, ASTM D573 (70 hrs. @ 212°F)	
Hardness Change, pts.	+9
Tensile Change, %	-2
Elongation Change, %	-8
Fluid Immersion, ASTM D471 ASTM #1 Oil, (70 hrs. @ 212°F)	
Hardness Change, pts.	+5
Tensile Change, %	-13
Elongation Change, %	-3
Volume Change, %	-5
Fluid Immersion, ASTM D471 IRM 903 Oil, (70 hrs. @ 212°F)	
Hardness Change, pts.	-4
Tensile Change, %	-13
Elongation Change, %	-11
Volume Change, %	+3
Low Temperature Brittleness, ASTM D2137	
Nonbrittle after 3 min. @ -31°F	Passed