



# MATERIAL REPORT

DATE: 03/18/02

**TITLE:** Evaluation of Parker's Compound NM156-75

**CONCLUSION:** Compound NM156-75 meets or exceeds all requirements of subject specification.

**Recommended Temperature Range:** -65 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>NM156-75</u> <u>Test Results</u>
Hardness, Shore A, pts.	75
Tensile Strength, psi	1661
Ultimate Elongation, %	167
Modulus @ 100%, psi	900
Specific Gravity	1.28
<b>Fluid Immersion, ASTM D471</b> <b>Mil-H-5606, (70 hrs. @ 275°F)</b>	
Hardness Change, pts.	-7
Tensile Change, %	-38
Elongation Change, %	-22
Volume Change, %	+14
<b>Compression Set, ASTM D395 Method B</b> <b>Mil-H-5606, (70 hrs. @ 275°F)</b>	
Percent of Original Deflection (plied)	40
<b>Fluid Immersion, ASTM D471</b> <b>Mil-H-83282, (70 hrs. @ 275°F)</b>	
Hardness Change, pts.	-6
Tensile Change, %	-31
Elongation Change, %	-32
Volume Change, %	+7
<b>Compression Set, ASTM D395 Method B</b> <b>Mil-H-83282, (70 hrs. @ 275°F)</b>	
Percent of Original Deflection (plied)	43
<b>Low Temperature, ASTM D1329</b> TR-10, °F	-55