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
## REPORT DATA

<table>
<thead>
<tr>
<th>Original Physical Properties, ASTM D1414, D2240</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore A, pts.</td>
<td>54</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>1641</td>
</tr>
<tr>
<td>Ultimate Elongation, %</td>
<td>323</td>
</tr>
</tbody>
</table>

**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 |