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
# 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>69</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>2200</td>
</tr>
<tr>
<td>Ultimate Elongation, %</td>
<td>350</td>
</tr>
<tr>
<td>Modulus @ 100%, psi</td>
<td>456</td>
</tr>
</tbody>
</table>

**Compression Set, ASTM D395 Method B**

(70 hrs. @ 257°F)

- % Deflection: 39

**Dry Heat Resistance, ASTM D573**

(70 hrs. @ 250°F)

- Hardness Change, pts.: +9
- Tensile Change, %: 0
- Elongation Change, %: -38

**Fluid Immersion, ASTM D471**

ASTM #1 Oil, (70 hrs. @ 302°F)

- Hardness Change, pts.: +3
- Tensile Change, %: -8
- Elongation Change, %: -24
- Volume Change, %: -5

**Fluid Immersion, ASTM D471**

ASTM #3, (70 hrs. @ 302°F)

- Hardness Change, pts.: -5
- Tensile Change, %: -10
- Elongation Change, %: 0
- Volume Change, %: +16

**Fluid Immersion, ASTM D471**

Distilled Water, (70 hrs. @ 212°F)

- Hardness Change, pts.: 0
- Tensile Change, %: -8
- Elongation Change, %: -12
- Volume Change, %: 0

**Low Temperature Brittleness, ASTM D1329**

TR-10, °F

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