MATERIAL REPORT

DATE: 05/18/01

TITLE: Evaluation of Parker's Compound NB107-90

CONCLUSION: Compound NB107-90 meets or exceeds all requirements of subject specification.

Recommended Temperature Range: -25 to 225F

Recommended for: petroleum oils, water (up to 212F), Salt & Alkali solutions, weak acids

Not Recommended for: aromatic fuels, strong acids, glycols, ozone, polar solvents
### REPORT DATA

<table>
<thead>
<tr>
<th>Test Results</th>
<th>NB107-90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore A, pts.</td>
<td>89</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>2768</td>
</tr>
<tr>
<td>Ultimate Elongation, %</td>
<td>110</td>
</tr>
<tr>
<td>Modulus @ 100%, psi</td>
<td>875</td>
</tr>
</tbody>
</table>

#### Compression Set, ASTM D395 Method B
(70 hrs. @ 212°F)
Percent of Original Deflection | 11

#### Compression Set, ASTM D395 Method B
(70 hrs. @ 257°F)
Percent of Original Deflection | 23

#### Compression Set, ASTM D395 Method B
(22 hrs. @ 300°F)
Percent of Original Deflection | 14

#### Compression Set, ASTM D395 Method B
(22 hrs. @ 400°F)
Percent of Original Deflection | 17

#### Dry Heat Resistance, ASTM D573
(70 hrs. @ 257°F)
Hardness Change, pts. | +2
Tensile Change, % | -5
Elongation Change, % | -40

#### Fluid Immersion, ASTM D471
ASTM #1 Oil, (70 hrs. @ 300°F)
Hardness Change, pts. | 0
Tensile Change, % | -21
Elongation Change, % | -25
Volume Change, % | 0

#### Fluid Immersion, ASTM D471
IRM 903 Oil, (70 hrs. @ 300°F)
Hardness Change, pts. | -5
Tensile Change, % | -28
Elongation Change, % | -25
Volume Change, % | +12

#### Fluid Immersion, ASTM D471
Distilled Water, (70 hrs. @ 212°F)
Hardness Change, pts. | 0
Tensile Change, % | 0
Elongation Change, % | -10
Volume Change, % | 0

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