MATERIAL REPORT

REPORT NUMBER:  
DATE: 02/19/99

TITLE: Evaluation of Parker Compound V1262-65 to ASTM D2000 M7HK 607 A1-10 B38 EF31 Z1 Z2

PURPOSE: To determine if V1262-65 meets the requirements.


Recommended temperature limits: -15°F to 400°F

Recommended For
Flex fuels
Petroleum, mineral, and vegetable oils
Silicone fluids
Aromatic hydrocarbons (benzene, toluene)
Chlorinated hydrocarbons
High vacuum
Ozone, weather, and aging resistance

Not Recommended For
Hot water and steam
Auto and aircraft brake fluids
Amines
Ketones
Low molecular weight esters and ethers

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# REPORT DATA

<table>
<thead>
<tr>
<th></th>
<th>ASTM D2000 M7HK 607 A1-10 B38 EF31 Z1 Z2 Pass / Fail Limits</th>
<th>V1262-65 Slab Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Basic Physical Properties</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hardness</td>
<td>65 +/- 5 (Z1)</td>
<td>67</td>
</tr>
<tr>
<td>Tensile Strength, MPa min</td>
<td>7</td>
<td>11.0</td>
</tr>
<tr>
<td>Elongation, % min</td>
<td>200</td>
<td>323</td>
</tr>
<tr>
<td>100% Modulus, MPa</td>
<td>Not required</td>
<td>2.3</td>
</tr>
<tr>
<td><strong>Heat Aging, 70 HRS @ 250°C</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hardness Change, pts max</td>
<td>+10</td>
<td>0</td>
</tr>
<tr>
<td>Tensile Change, % max</td>
<td>-25</td>
<td>-4.9</td>
</tr>
<tr>
<td>Elongation Change, % max</td>
<td>-25</td>
<td>+5.3</td>
</tr>
<tr>
<td><strong>Compression Set ASTM D395, Method B, 22 HRS @ 200°C, plies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% of Original Deflection, max</td>
<td>20</td>
<td>12</td>
</tr>
<tr>
<td><strong>Fluid Resistance, ASTM Ref. Fuel C, 70 HRS @ 23°C</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hardness Change, pts</td>
<td>+/-5</td>
<td>-4</td>
</tr>
<tr>
<td>Tensile Change, % max</td>
<td>-25</td>
<td>-11</td>
</tr>
<tr>
<td>Elongation Change, % max</td>
<td>-20</td>
<td>-6</td>
</tr>
<tr>
<td>Volume Change, %</td>
<td>0 to +10</td>
<td>+1.5</td>
</tr>
<tr>
<td><strong>(Z2) Fluid Immersion, 50/50 by volume Ref. Fuel C/Methanol, 70 HRS @ 23°C</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volume Change, % max</td>
<td>+10</td>
<td>+7.7</td>
</tr>
</tbody>
</table>