MATERIAL REPORT

Test Date: 4/5/2016
Test number: 115287

Title: Evaluation of Parker Compound VX065-75

Elastomer Type: Fluorocarbon (FKM)

Purpose: To obtain typical test data.

Color: Black

Specification: ASTM D2000 M3HK710 A1-10 B38 EF31 EO78 Z1 Z2 Z3 Z4
Z1 = 75±5 durometer, Z2 = 120% min elongation
Z3 = TR-10, Z4 = 1100 psi tensile strength

Recommended Temperature Range: -65°F to 400°F

Recommended For: Jet fuel, HTS oil, mineral oil and grease, IRM 901 oil, IRM 902 oil, IRM 903 oil, nonflammable hydraulic fluids, silicone oils and greases, aliphatic hydrocarbons (propane, butane, natural gas), aromatic hydrocarbons (benzene, toluene), chlorinated hydrocarbons (trichloroethylene and carbon tetrachloride), gasoline, high vacuum, ozone, weather, and aging resistance.

Not Recommended For: Glycol based brake fluids, ammonia gas, amines, alkalis, superheated steam, and low molecular weight organic acids (formic and acetic acids).

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### REPORT DATA

<table>
<thead>
<tr>
<th>Original Physical Properties:</th>
<th>Test Method</th>
<th>Spec Limits</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Z1) Hardness, Shore A, pts</td>
<td>ASTM D2240</td>
<td>75±5</td>
<td>75</td>
</tr>
<tr>
<td>(Z4) Tensile Strength, psi, Min</td>
<td>ASTM D412</td>
<td>1100 (7.5)</td>
<td>1658</td>
</tr>
<tr>
<td>(Z2) Ultimate Elongation, % Min</td>
<td>ASTM D412</td>
<td>120</td>
<td>174</td>
</tr>
</tbody>
</table>

(A1-10) Heat Age
70 hrs @ 482°F (250°C)

- Hardness Change, points, Max: +10, 0
- Tensile Strength Change, %, Max: -25, -12
- Elongation Change, %, Max: -25, -13

(B38) Compression Set:
22 hrs @ 392°F (200°C) Plied

- Percent of Original Deflection, Max: 20, 5

(Z3) Low Temperature
ASTM D1329

- TR-10, °F (°C) Report: -49 (-45)

(EF31) Fluid Resistance
Fuel C, 70 hrs @ 73°F (23°C)

- Hardness Change, points, Max: ±5, 0
- Tensile Strength Change, %, Max: -25, -23
- Elongation Change, %, Max: -20, -2
- Volume Change, %, Max: 0 to +10, 9

(EO78) Fluid Resistance
Service Fluid 101
70 hrs @ 392°F (200°C)

- Hardness Change, points, Max: -15 to +5, 0
- Tensile Strength Change, %, Max: -40, -14
- Elongation Change, %, Max: -20, -13
- Volume Change, %, Max: 0 to +15, 6