Data Sheet: FFKM8703

MATERIAL: PERFLUOROELASTOMER 80 SHORE

Developed for food and pharmaceutical processing, automated CIP and SIP systems and is FDA compliant to 21 CFR 177.2600.

Offers outstanding resistance to aggressive media.

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -10°C to 230°C continuous (260°C Peak)

<table>
<thead>
<tr>
<th>PHYSICAL PROPERTIES</th>
<th>TEST METHOD</th>
<th>TEST RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARDNESS SHORE A</td>
<td>ASTM D2240</td>
<td>81</td>
</tr>
<tr>
<td>TENSILE STRENGTH, MPa</td>
<td>ASTM D412</td>
<td>15</td>
</tr>
<tr>
<td>ELONGATION, %</td>
<td>ASTM D412</td>
<td>140</td>
</tr>
<tr>
<td>MODULUS 100%</td>
<td>ASTM D412</td>
<td>10</td>
</tr>
<tr>
<td>SPECIFIC DENSITY</td>
<td>ASTM D297</td>
<td>2.12</td>
</tr>
</tbody>
</table>

COMPRESSION SET
70 hrs @ 200°C % | ASTM D395/B | 18 |

LOW TEMPERATURE FLEXIBILITY
TR-10°C | ASTM D1329 | -2 |

AIR AGEING, 70hrs @ 225°C
HARDNESS CHANGE, SHORE A | ASTM D573 | +1 |
TENSILE STRENGTH CHANGE % | ASTM D573 | -6 |
ELONGATION CHANGE % | ASTM D573 | +15 |

STEAM IMMERSION, 168 hrs @ 204°C
HARDNESS CHANGE, SHORE A | ASTM D471 | +3 |
TENSILE STRENGTH CHANGE % | ASTM D471 | -25 |
ELONGATION CHANGE % | ASTM D471 | +17 |
VOLUME CHANGE % | ASTM D471 | +2 |

HYDROCHLORIC ACID 37% IMMERSION, 72hrs @ 80°C
HARDNESS CHANGE, SHORE A | ASTM D471 | -2 |
TENSILE STRENGTH CHANGE % | ASTM D471 | +3 |
ELONGATION CHANGE % | ASTM D471 | +8 |
VOLUME CHANGE % | ASTM D471 | +2 |

SODIUM HYDROXIDE 40% IMMERSION, 72hrs @ 100°C
HARDNESS CHANGE SHORE A | ASTM D471 | 0 |
TENSILE STRENGTH CHANGE % | ASTM D471 | +10 |
ELONGATION CHANGE % | ASTM D471 | +4 |
VOLUME CHANGE % | ASTM D471 | +0.6 |
## FLUID RESISTANCE OVERVIEW

<table>
<thead>
<tr>
<th>Fluid Type</th>
<th>Volume Change %</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACIDS</td>
<td>&lt;10</td>
</tr>
<tr>
<td>KETONES</td>
<td>&lt;10</td>
</tr>
<tr>
<td>ESTERS</td>
<td>&lt;10</td>
</tr>
<tr>
<td>ALKALIS</td>
<td>&lt;10</td>
</tr>
</tbody>
</table>

The above test results are based on test slabs / buttons. The results from the actual parts may be different.