Marco Compound # F1004
80 Durometer, Blue, AMS & MIL-R Compliant
Technical Datasheet

Common Names:
Fluorosilicone, FVMQ

General Description:
Fluorosilicone is a widely-used elastomer that can be compounded to meet a wide range of applications. The mechanical and physical properties are very similar to silicone rubber. Fluorosilicone offers improved fuel and mineral oil resistance but weakened hot air resistance compared to silicone. Marco compound F1004 meets AMS and MIL specifications for use in Aerospace applications. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:
- Meets MIL-DTL-25988C and AMS-R-25988 Class 1, Type I / Type II, Grade 80
- Excellent flexibility and resistance to compression set
- Excellent resistance to aging and weather-sunlight
- Resistance to oxidizing chemicals, animal and vegetable oils, fuels, aromatic and chlorinated solvents
- Resistant to diluted alkalies, diester oils, aliphatic and aromatic fluorocarbons, silicone oil, toluene, benzene, ozone and oxidative environments.

Limitations:
- Brake fluids, ketones, hydrazine, adipaldehydes, amines, ketones
- Poor abrasion resistance

Service Temperature:
-100 to 350°F

Specification:
AMS-R-25988 and MIL-R-25988 Class 1, Type I / Type II, Grade 80

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>ORIGINAL PROPERTIES</th>
<th>Specification Requirements</th>
<th>Typical Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore A, ASTM D2240</td>
<td>80 ± 5</td>
<td>83</td>
</tr>
<tr>
<td>Color</td>
<td>Blue</td>
<td>Blue</td>
</tr>
<tr>
<td>Tensile Strength, psi, ASTM D412</td>
<td>750 min.</td>
<td>900</td>
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<tr>
<td>Ultimate Elongation, %, ASTM D412</td>
<td>70 min.</td>
<td>181</td>
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<tr>
<td>Tear Strength, ppi, ASTM D624</td>
<td>40 min.</td>
<td>153</td>
</tr>
<tr>
<td>Specific Gravity, ASTM D297</td>
<td>--------</td>
<td>1.48</td>
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This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer’s application. It’s the customer’s responsibility to evaluate parts prior to use.