# LABORATORY TEST REPORT

**AMS-R-7362**

## Original Physical Properties

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Spec Limits</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore A, pts.</td>
<td>ASTM D2240 70±5</td>
<td>68</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>ASTM D412 1200</td>
<td>1779</td>
</tr>
<tr>
<td>Ultimate Elongation, %</td>
<td>ASTM D412 250</td>
<td>280</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>ASTM D297 As determined</td>
<td>1.33</td>
</tr>
<tr>
<td>Temperature Retraction</td>
<td>ASTM D1329 -40°F</td>
<td>-42°F</td>
</tr>
</tbody>
</table>

## Compression Set

- **22 hrs. @ 275°F**
  - Percent of Original Deflection, max Over 0.110 inch
    - ASTM D395 Method B 55 37

- **22 hrs. @ 257°F**
  - Percent of Original Deflection, max
    - ASTM D395 Method B 55 43

## Compression Set

- **70 hrs. @ 257°F Fluid MIL-L-7808**
  - Percent of Original Deflection, max
    - ASTM D395 Method B 50 41

## Fluid Immersion

- **70 Hrs @ 125°C Fluid MIL-L-7808**
  - Hardness, Shore A, pts.
    - ASTM D471 ±10 +2
  - Tensile Strength, psi
    - 60 +1
  - Ultimate Elongation, %
    - 2 to 15 +9
  - Volume Change, %
    - 1.75 No Cracks
  - Temperature Retraction
    - ASTM D1329 -30°F -32°F

## Air Aged

- **70 Hrs @ 257°F**
  - Hardness, Shore A, pts.
    - ASTM D471 0, +20 +17
  - Tensile Strength, psi
    - 20 +1
  - Ultimate Elongation, %
    - 60 +19

## Corrosion and Adhesion

- **2 weeks @ 92% Humidity @ RT**
  - Aluminum, Alloy
    - QQ-A-259/4 Pass Pass
  - Brass
    - QQ-626 Pass Pass
  - Phosphate Bronze
    - QQ-P-750 Pass Pass
  - Steel
    - MIL-S-18729 Pass Pass

*Corrosion and Adhesion performed by T. Pingleton*

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