SSP100 Series
MIL-DTL-25988-(C) Type 1&2 Class 1 Group 70 Silicone

PRODUCT DESCRIPTION
SSP100 is a 70 durometer heat cured fluorosilicone elastomer. It is designed to meet the requirements outlined in the MIL-DTL-25988-(C) Type 1&2 Class 1 Group 70 specification. This product uses a DBPH or dicumyl peroxide catalyst system. It can be supplied as ready-to-mold compound or as compression molded sheet stock. SSP100 silicone can be pigmented to a customer’s requirement, but the most popular colors produced are red, blue, and black. Operating Temperatures -70 to 450°F.

<table>
<thead>
<tr>
<th>Testing</th>
<th>Spec</th>
<th>Typical Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shore A, points</td>
<td>65-75</td>
<td>70</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>950</td>
<td>1000</td>
</tr>
<tr>
<td>Elongation, %</td>
<td>150</td>
<td>250</td>
</tr>
<tr>
<td>Tear B, ppi</td>
<td>75</td>
<td>128</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.59 – 1.65</td>
<td>1.62</td>
</tr>
<tr>
<td>Comp Set, %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22 hrs @ 177°C</td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td>70 hrs @ 24°C</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

*Other tests performed in accordance with MIL-DTL-25988-(C) Type 2 Class 1 Group 40 specification include: Brittle Point, Torsional Stiffness, Heat Aging Change, Oil & Fuel Immersion Change.

Typical Values:
- Shore A, points: 65-75, Spec: 70
- Tensile Strength, psi: 950, Spec: 1000
- Elongation, %: 150, Spec: 250
- Tear B, ppi: 75, Spec: 128
- Specific Gravity: 1.59 – 1.65, Spec: 1.62
- Comp Set, %: 22 hrs @ 177°C: 25, Spec: 20
- Comp Set, %: 70 hrs @ 24°C: 15, Spec: 15

*Cure Profile: Press cure for 15 minutes at 177°C (350°F). Post Cure for 3 hours at 200°C (392°F).

CATALYZING
Uncured material is available catalyzed and ready for press cure molding. Data above was generated with DBPH catalyst system.

SHELF LIFE
Catalyzed – 6 months. Cured Sheet - Indefinite
Cold storage will extend shelf life.

HANDLING & SAFETY
SDS information is available on request.

For more information visit www.sspinc.com. To order call (518) 885-8826/ or Fax (518) 885-4682.

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