Modus Advanced, Inc.'s military-grade A-A 59588A silicone is a heat cured elastomer. It is a fully-compliant 3B material. This product meets all Grade 50 physical and mechanical requirements. This includes durometer (Shore A), tensile strength, elongation, tear B, compression set, specific gravity, and low temperature brittle point. The following table contains test data generated with a DCLBP peroxide catalyst system.

### APPLICATIONS
- Molded parts, sheets, strips and extruded shapes

### FEATURES AND BENEFITS
- High flex-fatigue resistance
- Excellent UV and ozone resistance
- Extreme temperature resistance
- Varox peroxide catalyst system

### AVAILABILITY
- Die Cut
- Custom molded into shapes

### COLORS
- RC350-0250 - Black
- RC350-0251 - Gray
- RC350-0252 - Red

The images above are meant to demonstrate our fabrication capabilities and do not represent materials described in this data sheet.

**A-A-59588, CLASS 3B, GRADE 50**

<table>
<thead>
<tr>
<th>TEST</th>
<th>REQUIREMENTS</th>
<th>TYPICAL VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shore A</td>
<td>45 – 55</td>
<td>50</td>
</tr>
<tr>
<td>Tensile Strength (psi)</td>
<td>1200 min.</td>
<td>1280</td>
</tr>
<tr>
<td>Elongation (%)</td>
<td>500 min.</td>
<td>660</td>
</tr>
<tr>
<td>Tear B (ppi)</td>
<td>150 min.</td>
<td>240</td>
</tr>
<tr>
<td>Compression Set (%)</td>
<td>20 max.</td>
<td>15</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.12 – 1.20</td>
<td>1.15</td>
</tr>
<tr>
<td>Flex Resistance (140,000 cycles/inch)</td>
<td>0.5 max.</td>
<td>0.42</td>
</tr>
<tr>
<td>Low Temperature Brittle Point @ -70° C</td>
<td>Pass 5 of 5</td>
<td>Pass</td>
</tr>
</tbody>
</table>

### CUSTOMERS ALSO SEARCHED:
- custom molded rubber
- molded rubber
- china molded rubber
- USA molded rubber
- compression molded rubber
- rubber manufacturer
- custom injection molding
- custom compression molding
- custom molding
- custom molded silicone
- molded silicone
- molded gasket
- medical molding
- rubber to metal bonding
- custom molded rubber products
- custom rubber molding
- custom rubber production
- silicone molding
- neoprene gasket
- custom molded neoprene military molded rubber aerospace rubber
- A-A-59588 Class 3B silicone
- Flex-fatigue resistance silicone
- DeMattia Flexural Test
- Fully compliant A-A-59588 Class 3B silicone
- Extruded A-A-59588 AA9588
- ASTM D813-07
- A-A-59588 3B certification
- silicon elastomer
- silicon elastomers
- silicone elastomer
- silicone elastomers
- silicon elastomer msds
- silicone elastomer msds
- A-A-59588 class 3b grade 50

We are Modus! With multiple locations in North America and China, Modus Advanced, Inc. is a diversified custom manufacturer that converts EMI Shielding, Environmental Gasket Materials, Microwave Absorbers, Acoustic Materials, Thermal Interface Materials and other high performance materials into finished parts. Modus utilizes its 40 years as an established provider of high quality, reliable products to create precisely what customers specify. Innovative processes; custom fabrication utilizing performance materials; an on time delivery record of more than 99% means Modus is well positioned to help your company succeed.

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