Modus Advanced, Inc. custom manufactures parts and gaskets using Nolato 8642 EMI shielding or electrically conductive silicone rubber. This extruded material is an effective and reliable environmental seal, which will show minimal to no deterioration of conductivity and shielding over time. Silicone rubber can easily withstand heat, cold, moisture, UV, ozone and pressure over an extended period of time with a temperature range between -55°C and +125°C.

### TYPICAL MATERIAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST PROCEDURE</th>
<th>UNIT</th>
<th>8642</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base material</td>
<td></td>
<td>Silicone rubber</td>
<td></td>
</tr>
<tr>
<td>Conductive filler</td>
<td></td>
<td>Ni/C</td>
<td></td>
</tr>
<tr>
<td>Volume resistivity, as molded</td>
<td>MIL-DTL-83528C</td>
<td>mOhmcm</td>
<td>17</td>
</tr>
<tr>
<td>Volume resistivity, aged 48 h/156°C</td>
<td>MIL-DTL-83528C</td>
<td>mOhmcm</td>
<td>42</td>
</tr>
<tr>
<td>Volume resistivity, aged 1000h/125°C</td>
<td>MIL-DTL-83528C</td>
<td>mOhmcm</td>
<td>57</td>
</tr>
<tr>
<td>Average shielding effect, 0.3 – 20 GHz</td>
<td>Nolato cavity to cavity test method</td>
<td>dB</td>
<td>130</td>
</tr>
<tr>
<td>Density</td>
<td>ISO 2781</td>
<td>g/cm³</td>
<td>2.4</td>
</tr>
<tr>
<td>Hardness</td>
<td>ISO 7619</td>
<td>Shore A</td>
<td>80</td>
</tr>
<tr>
<td>Tensile strength¹</td>
<td>ISO 37</td>
<td>MPa</td>
<td>4.1</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>ISO 37</td>
<td>%</td>
<td>160</td>
</tr>
<tr>
<td>Tear strength²</td>
<td>ISO 34-1C</td>
<td>N/mm</td>
<td>15</td>
</tr>
<tr>
<td>Compression set, 72 hours/100°C</td>
<td>ISO 815</td>
<td>%</td>
<td>35</td>
</tr>
<tr>
<td>Flammability²</td>
<td>UL 94</td>
<td>V0</td>
<td></td>
</tr>
</tbody>
</table>

1) 1 MPa = 145 psi       2) 1 N/mm = 5.71 lb/in       3) Tested on a 4 mm thick sample

The recommendations and data given are based on our experience to date, however, no liability can be assumed in connection with their usage and processing. Typical property data values should not be used as specification.

### APPLICATIONS

Nolato 8642 is particularly suited for economical mass production of extruded gaskets or molded parts for low cost EMI shielding components.

### RoHS INFORMATION

Nolato 8642 fulfills the requirements set by the EU Directive 2002/95/EC (RoHS).

### SAFETY INFORMATION

Nolato 8642 is according to EU directive classified as harmful, class Xn, due to the content of nickel. Nickel may cause sensitisation by skin contact. It is advisory to never touch the gasket without gloves. A material safety data sheet can be sent on request.

### CUSTOMERS ALSO SEARCHED:

- form in place gasket
- liquid gasket
- conductive gasket
- nickel graphite silicone