### Material Specifications

**General Description**, **Temperature** and **Tolerance Information**

<table>
<thead>
<tr>
<th>Material</th>
<th>General Description</th>
<th>Hardness (Shore A)</th>
<th>Tensile Strength (PSI)</th>
<th>Elongation (%)</th>
<th>Tear Strength (PSI)</th>
<th>Operating Temperature Low</th>
<th>Operating Temperature High</th>
<th>Electrical Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>9500</td>
<td>General Purpose, Glossy</td>
<td>73</td>
<td>1520</td>
<td>380</td>
<td>200</td>
<td>-20 to -29</td>
<td>300 to 149</td>
<td>Good</td>
</tr>
<tr>
<td>9250</td>
<td>High-Temp Resistant (HT-201)</td>
<td>84</td>
<td>2500</td>
<td>350</td>
<td>250</td>
<td>0 to -18</td>
<td>475 to 246</td>
<td>Good</td>
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<tr>
<td>9700</td>
<td>Low Exudation</td>
<td>73</td>
<td>1500</td>
<td>300</td>
<td>150</td>
<td>+20 to -7</td>
<td>250 to 121</td>
<td>Good</td>
</tr>
<tr>
<td>9400</td>
<td>FDA Acceptable</td>
<td>58</td>
<td>1800</td>
<td>500</td>
<td>270</td>
<td>-20 to -29</td>
<td>140 to 60</td>
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<tr>
<td>9240</td>
<td>Semi-Rigid, Glossy</td>
<td>86</td>
<td>2200</td>
<td>260</td>
<td>250</td>
<td>+20 to -7</td>
<td>250 to 121</td>
<td>Good</td>
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<tr>
<td>9238</td>
<td>Non-Copper Staining</td>
<td>75</td>
<td>1750</td>
<td>300</td>
<td>200</td>
<td>-20 to -29</td>
<td>250 to 121</td>
<td>Good</td>
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<tr>
<td>9222</td>
<td>Flame Retardant, Matte</td>
<td>73</td>
<td>620</td>
<td>230</td>
<td>80</td>
<td>0 to -18</td>
<td>280 to 138</td>
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<tr>
<td>9100</td>
<td>Textured</td>
<td>60</td>
<td>850</td>
<td>300</td>
<td>100</td>
<td>-20 to -29</td>
<td>150 to 66</td>
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<tr>
<td>4610</td>
<td>General Purpose, Matte</td>
<td>65</td>
<td>600</td>
<td>175</td>
<td>45</td>
<td>+20 to -7</td>
<td>175 to 79</td>
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<tr>
<td>4406</td>
<td>Anti-Static</td>
<td>70</td>
<td>1200</td>
<td>250</td>
<td>200</td>
<td>-20 to -29</td>
<td>250 to 121</td>
<td>Good</td>
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<tr>
<td>3810</td>
<td>Extended U.V. Resistant</td>
<td>75</td>
<td>1750</td>
<td>300</td>
<td>250</td>
<td>-20 to -29</td>
<td>250 to 121</td>
<td>Good</td>
</tr>
<tr>
<td>1219</td>
<td>Gas &amp; Oil Resistant, Glossy</td>
<td>70</td>
<td>1500</td>
<td>250</td>
<td>150</td>
<td>-20 to -29</td>
<td>300 to 149</td>
<td>Good</td>
</tr>
<tr>
<td>1217</td>
<td>Textured</td>
<td>45</td>
<td>500</td>
<td>250</td>
<td>95</td>
<td>-20 to -29</td>
<td>150 to 66</td>
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</tr>
<tr>
<td>Silicone</td>
<td>Ultra High-Temp Resistant</td>
<td>50-60</td>
<td>800</td>
<td>200</td>
<td>75</td>
<td>-104 to -76</td>
<td>600 to 316</td>
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<tr>
<td>EPDM</td>
<td>High-Temp Chemical Resistant</td>
<td>50</td>
<td>1015</td>
<td>300</td>
<td>200</td>
<td>-67 to -55</td>
<td>300 to 149</td>
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</tr>
<tr>
<td>LDPE</td>
<td>Low-Density Polyethylene</td>
<td>---</td>
<td>1600</td>
<td>---</td>
<td>---</td>
<td>-94 to -70</td>
<td>175 to 79</td>
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<tr>
<td>HDPE</td>
<td>High-Density Polyethylene</td>
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<td>3100-5500</td>
<td>---</td>
<td>---</td>
<td>0 to -18</td>
<td>215 to 102</td>
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<tr>
<td>PP</td>
<td>Polypropylene</td>
<td>---</td>
<td>3300-5300</td>
<td>---</td>
<td>---</td>
<td>-94 to -70</td>
<td>250 to 121</td>
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<tr>
<td>TPE</td>
<td>Thermoplastic Elastomer</td>
<td>---</td>
<td>985</td>
<td>---</td>
<td>---</td>
<td>-76 to -60</td>
<td>194 to 90</td>
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<tr>
<td>NYLON</td>
<td>Nylon PA6</td>
<td>---</td>
<td>10741</td>
<td>---</td>
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<td>-40 to -40</td>
<td>250 to 121</td>
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<tr>
<td>Paper</td>
<td>Tan Recycled Paper</td>
<td>---</td>
<td>---</td>
<td>---</td>
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<td>---</td>
<td>400 to 204</td>
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</tr>
</tbody>
</table>

**Additional Formulas, Compounds & Resins Available, Please Contact Sales.**

### Dip Molded Vinyl

- **Vinyl Products**
  - Minimum Length = 3/16" (4.75mm)
  - Length is variable in 1/16" (1.58mm) increments
  - Inside length tolerance is +/- 1/16" (1.58mm)
  - Length measured along inside wall, not from center, with the exception of the RFVG Series.
  - Wall thickness as noted, unless special request
  - Wall tolerance +/- .010’’ (.25mm)
  - Wall measured approximately 1/4’’ (.63mm) from open end, with wall increasing slightly towards the closed end of cap
  - Specify Standard Formulation 9500 or High-Temp 9250 (Additional formulations are available).

### Rubber

- **Rubber Dip Molded Vinyl Resins**
  - Ultra High-Temp Resistant
  - High-Temp Chemical Resistant

### Resins

- **SILICONE**
  - Ultra High-Temp Resistant
  - High-Temp Chemical Resistant

### Tolerances

**VINYL PRODUCTS**
- Minimum Length = 3/16” (4.75mm)
- Length is variable in 1/16” (1.58mm) increments
- Inside length tolerance is +/- 1/16” (1.58mm)
- Length measured along inside wall, not from center, with the exception of the RFVG Series.
- Wall thickness as noted, unless special request
- Wall tolerance +/- .010” (.25mm)
- Wall measured approximately 1/4” (.63mm) from open end, with wall increasing slightly towards the closed end of cap
- Specify Standard Formulation 9500 or High-Temp 9250 (Additional formulations are available).

**POLY PRODUCTS**
- Typical tolerance for part dimension:
  - 0.000"-3.000": ± 0.010” (.0mm to 76.2mm : ± .25mm)
  - 3.001"-5.000": ± 0.015” (76.23mm to 127mm : ± .38mm)
  - 5.001” and up: ± 0.020” (127.1mm and up : ± .51mm)
- On SMR Series parts 1-1/16” and larger, the tolerance for dimension “A” is +0.018”/-0.010” (+.45mm/- .25mm)

**RUBBER PRODUCTS**
All Thermoset Rubber Products are manufactured to RMA® “A3” Commercial tolerances

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**Material Maximum Temperature Specifications**

<table>
<thead>
<tr>
<th>Material</th>
<th>9400</th>
<th>9100 + 1217</th>
<th>4610 + LDPE</th>
<th>TPE</th>
<th>HDPE</th>
<th>3810 + 4406</th>
<th>9238 + 9240</th>
<th>9700 + NYLON</th>
<th>9222</th>
<th>9500 + EPDM</th>
<th>1219</th>
<th>PAPER</th>
<th>9250</th>
<th>SILICONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>140°F</td>
<td>---</td>
<td>150°F</td>
<td>175°F</td>
<td>---</td>
<td>---</td>
<td>194°F</td>
<td>215°F</td>
<td>250°F</td>
<td>275°F</td>
<td>300°F</td>
<td>300°F</td>
<td>400°F</td>
<td>475°F</td>
<td>600°F</td>
</tr>
<tr>
<td>60°C</td>
<td>---</td>
<td>66°C</td>
<td>79°C</td>
<td>---</td>
<td>---</td>
<td>90°C</td>
<td>102°C</td>
<td>121°C</td>
<td>135°C</td>
<td>149°C</td>
<td>204°C</td>
<td>246°C</td>
<td>316°C</td>
<td></td>
</tr>
</tbody>
</table>

Temperatures shown are guidelines. Please request a FREE sample for your testing.

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**9500 Formula Vinyl Color Options**

- Black (PMS 201)
- Medium Red (PMS 3306)
- Dark Red (PMS 1795)
- Dark Blue (PMS 877)
- Silver (PMS 202)
- Gray (PMS 422)
- White (PMS 302)
- Bright Blue (PMS 281)
- Medium Blue (PMS 477)
- Brown (PMS 1502)
- Natural (PMS 347)
- Black (PMS 281)

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**Plastic Color Options**

- Medium Green (PMS 348)
- Orange (PMS 1665)
- Yellow (PMS 7404)
- Red (PMS 343)
- Medium Blue (PMS 877)
- Silver (PMS 477)
- Gray (PMS 422)
- White (PMS 302)
- Black (PMS 281)
- Bright Red (PMS 1795)
- Medium Green (PMS 348)
- Dark Red (PMS 1795)
- Bright Blue (PMS 877)
- Medium Blue (PMS 477)
- Silver (PMS 285)
- Gray (PMS 422)
- White (PMS 302)
- Black (PMS 281)
- Medium Green (PMS 348)
- Dark Red (PMS 1795)
- Bright Blue (PMS 877)
- Medium Blue (PMS 477)
- Silver (PMS 285)
- Gray (PMS 422)
- White (PMS 302)
- Black (PMS 281)

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**Additional Information**

- 1.800.633.6775
- www.mocap.com