

## Parker Chomerics CHO-SEAL® 6435 Conductive Elastomer

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone

### Material Notes:

Description: Material of choice for high shielding effectiveness where NBC fluid resistance is needed; good performance in corrosive environments. Molded only. RoHS Compliant. Information provided by Chomerics

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Parker-Chomerics-CHO-SEAL-6435-Conductive-Elastomer.php](http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-SEAL-6435-Conductive-Elastomer.php)

| Physical Properties | Metric           | English          | Comments  |
|---------------------|------------------|------------------|-----------|
| Specific Gravity    | 3.45 - 3.95 g/cc | 3.45 - 3.95 g/cc | ASTM D792 |

| Mechanical Properties | Metric   | English   | Comments            |
|-----------------------|--|---|---------------------|
| Hardness, Shore A     | 73 - 87  | 73 - 87   | ASTM D2240          |
| Tensile Strength      | >= 1.38 MPa  | >= 200 psi  | ASTM D412           |
| Elongation at Break   | <= 200 %   | <= 200 %  | ASTM D412           |
| Tear Strength         | <= 13.1 kN/m                                       | <= 75.0 pli                                       | ASTM D624           |
| Compression Set       | <= 40 %<br>@Temperature 100 °C,<br>Time 252000 sec | <= 40 %<br>@Temperature 212 °F,<br>Time 70.0 hour | ASTM D395, Method B |

| Thermal Properties               | Metric                           | English   | Comments   |
|----------------------------------|----------------------------------|---|------------|
| Thermal Conductivity             | 1.80 W/m-K<br>@Pressure 2.07 MPa | 12.5 BTU-in/hr-ft <sup>2</sup> -°F<br>@Pressure 300 psi | ASTM D5470 |
| Maximum Service Temperature, Air | 100 °C                           | 212 °F  |            |
| Minimum Service Temperature, Air | -40.0 °C                         | -40.0 °F  | Flex TR10  |

| Electrical Properties   | Metric                                | English                               | Comments   |
|-------------------------|---------------------------------------|---------------------------------------|--|
| Volume Resistivity      | <= 0.0060 ohm-cm                      | <= 0.0060 ohm-cm                      | without pressure-sensitive adhesive;<br>CEPS-0002    |
| Shielding Effectiveness | >= 85 dB<br>@Frequency 2.00e+9<br>Hz  | >= 85 dB<br>@Frequency 2.00e+9<br>Hz  | Plane Wave; Method 2, MIL-DTL-<br>83528 Para. 4.6.12 |
|                         | >= 85 dB<br>@Frequency 1.00e+10<br>Hz | >= 85 dB<br>@Frequency 1.00e+10<br>Hz | Plane Wave; Method 2, MIL-DTL-<br>83528 Para. 4.6.12 |

| Electrical Properties | <b>&gt;= 100 dB</b><br>Metric                       | <b>&gt;= 100 dB</b><br>English                      | Comments   |
|-----------------------|---|---|--|
|                       | @Frequency 5.00e+8<br>Hz                            | @Frequency 5.00e+8<br>Hz                            | E-Field; Method 2, MIL-DTL-83528<br>Para. 4.6.12 |
|                       | <b>&gt;= 105 dB</b><br><br>@Frequency 1.00e+8<br>Hz | <b>&gt;= 105 dB</b><br><br>@Frequency 1.00e+8<br>Hz | E-Field; Method 2, MIL-DTL-83528<br>Para. 4.6.12 |

| Descriptive Properties | Value          | Comments                   |
|------------------------|----------------|----------------------------|
| Binder                 | EPDM           |                            |
| Filler                 | Ag/Ni          |                            |
| Heat Aging             | <0.0125 ohm-cm | 100°C for 48hrs; CEPS-0002 |

## Contact Songhan Plastic Technology Co.,Ltd.

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