

## Parker Chomerics CHO-SEAL 1212 Conductive Elastomer

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

### Material Notes:

High strength, hard (80 shore A) material for waveguide, choke, cover, and flanges with grooves for EMI and pressure sealing. Molded only RoHS Compliant Information provided by Chomerics

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Parker-Chomerics-CHO-SEAL-1212-Conductive-Elastomer.php](http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-SEAL-1212-Conductive-Elastomer.php)

| Physical Properties | Metric           | English          | Comments  |
|---------------------|------------------|------------------|-----------|
| Specific Gravity    | 3.05 - 3.95 g/cc | 3.05 - 3.95 g/cc | ASTM D792 |

| Mechanical Properties     | Metric                                             | English                                           | Comments           |
|---------------------------|----------------------------------------------------|---------------------------------------------------|--------------------|
| Hardness, Shore A         | 78 - 92                                            | 78 - 92                                           | ASTM D2240         |
| Tensile Strength at Break | >= 2.76 MPa                                        | >= 400 psi                                        | ASTM D412          |
| Elongation at Break       | 100 - 300 %                                        | 100 - 300 %                                       | ASTM D412          |
| Tear Strength             | 7.00 kN/m                                          | 39.9 pli                                          | ASTM D624          |
| Compression Set           | <= 35 %<br>@Temperature 100 °C,<br>Time 252000 sec | <= 35 %<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-ft²-°F<br>@Pressure 300 psi | ASTM D5470            |
| Maximum Service Temperature, Air | 125 °C                           | 257 °F                                     |                       |
| Minimum Service Temperature, Air | -45.0 °C                         | -49.0 °F                                   | Flex TR10; ASTM D1329 |

| Electrical Properties   | Metric                           | English                          | Comments                                                       |
|-------------------------|----------------------------------|----------------------------------|----------------------------------------------------------------|
| Volume Resistivity      | 0.0050 ohm-cm                    | 0.0050 ohm-cm                    | as supplied without pressure sensitive adhesive; MIL-DTL-83528 |
|                         | 0.010 ohm-cm                     | 0.010 ohm-cm                     | Post Tensile Set; MIL-DTL-83528 Para.4.6.9                     |
| Shielding Effectiveness | >= 70 dB<br>@Frequency 200000 Hz | >= 70 dB<br>@Frequency 200000 Hz | H Field; MIL-DTL-83528 Para.4.6.12                             |
|                         | >= 120 dB<br>@Frequency 1.00e+8  | >= 120 dB<br>@Frequency 1.00e+8  | E Field; MIL-DTL-83528 Para.4.6.12                             |

| Electrical Properties | Hz<br>Metric              | Hz<br>English             | Comments                                 |
|-----------------------|---------------------------|---------------------------|------------------------------------------|
|                       | >= 120 dB                 | >= 120 dB                 |                                          |
|                       | @Frequency 5.00e+8<br>Hz  | @Frequency 5.00e+8<br>Hz  | E Field; MIL-DTL-83528 Para.4.6.12       |
|                       | >= 120 dB                 | >= 120 dB                 |                                          |
|                       | @Frequency 2.00e+9<br>Hz  | @Frequency 2.00e+9<br>Hz  | Plane Wave; MIL-DTL-83528<br>Para.4.6.12 |
|                       | >= 120 dB                 | >= 120 dB                 |                                          |
|                       | @Frequency 1.00e+10<br>Hz | @Frequency 1.00e+10<br>Hz | Plane Wave; MIL-DTL-83528<br>Para.4.6.12 |

| Descriptive Properties       | Value         | Comments                  |
|------------------------------|---------------|---------------------------|
| Binder                       | Silicone      |                           |
| EMP Survivability            | >0.9 kA / in  | MIL-DTL-83528 Para.4.6.16 |
| Filler                       | Ag/Cu         |                           |
| Heat Aging                   | <0.01 ohm-cm  | MIL-DTL-83528 Para.4.6.15 |
| Type                         | K             | MIL-DTL-83528             |
| Vibration Resistance, After  | <0.005 ohm-cm | MIL-DTL-83528 Para.4.6.13 |
| Vibration Resistance, During | <0.01 ohm-cm  | MIL-DTL-83528 Para.4.6.13 |

## Contact Songhan Plastic Technology Co.,Ltd.

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