

P & P Technology EC-S Pure Silver Loaded Silicone

Category : Polymer , Thermoset , Silicone

Material Notes:

P & P Technology material reference EC-S is a silicone elastomer with Silver conductive filler. It is tan in color. The material is specially compounded to offer excellent physical and electrical properties over an effective temperature range of -50 to + 150°C. Silicone offers excellent performance over a wide temperature range with good resistance to chemicals and weathering. Its resistance to mineral based fluids is limited, but it has good splash contact resistance to most mineral oils and greases. Information provided by P & P Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_P-P-Technology-EC-S-Pure-Silver-Loaded-Silicone.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------|
| Specific Gravity | 3.20 g/cc | 3.20 g/cc | ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|--|---|-----------|
| Tensile Strength | 1.25 MPa | 181 psi | ASTM D412 |
| Elongation at Break | >= 100 % | >= 100 % | ASTM D412 |
| Tear Strength | >= 0.000875 kN/m | >= 0.00499 pli | |
| Compression Set | <= 30 % @Temperature 100 °C, Time 259000 sec | <= 30 % @Temperature 212 °F, Time 72.0 hour | ASTM D395 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------|----------|----------|
| Maximum Service Temperature, Air | 150 °C | 302 °F | |
| Minimum Service Temperature, Air | -50.0 °C | -58.0 °F | |

| Electrical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|---------------------------------|-------------------------|
| Volume Resistivity | <= 0.0020 ohm-cm | <= 0.0020 ohm-cm | Mil-G-83528 |
| Shielding Effectiveness | 70 dB @Frequency 200000 Hz | 70 dB @Frequency 200000 Hz | Mil-G-83528/Mil std 285 |
| | 115 dB @Frequency 1.00e+8 Hz | 115 dB @Frequency 1.00e+8 Hz | Mil-G-83528/Mil std 285 |
| | 115 dB @Frequency 5.00e+8 Hz | 115 dB @Frequency 5.00e+8 Hz | Mil-G-83528/Mil std 285 |

| Electrical Properties | 115 dB Metric | 115 dB English | Comments |
|-----------------------|---|---|-------------------------|
| | @Frequency 2.00e+9 Hz | @Frequency 2.00e+9 Hz | Mil-G-83528/Mil std 285 |
| | 115 dB @Frequency 1.00e+10 Hz | 115 dB @Frequency 1.00e+10 Hz | Mil-G-83528/Mil std 285 |

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