

## **SSP2571-85**

### **Conductive Silicone Elastomer**

#### **PRODUCT DESCRIPTION**

**SSP2571-85** is a high durometer silver plated copper filled conductive silicone elastomer. This product is supplied as fully cured, conductive sheet stock, continuous extrusion profiles, or ready-to-mold compound, tan color. SSP2571-85 was designed to meet the MIL-DTL-83528 Type K specifications and is on the Qualified Product List (QPL). Notification of Qualification, VQH-21-036470.

<b>DATA</b>	<b>SPEC</b>	<b>Method</b>	<b>Typical Values</b>
<b>Hardness, Shore A</b>	78-92	ASTM D2240	85
<b>Tensile strength, psi</b>	400 min	ASTM D412	550 psi
<b>Elongation, %</b>	100-300	ASTM D412	120 %
<b>Tear Strength Type C, ppi</b>	40 min	ASTM D792	75 ppi
<b>Specific Gravity</b>	3.05 – 3.96	ASTM D792	3.50
<b>Volume Resistivity, ohm-cm</b>	0.005 max	MIL-DTL-83528	0.0006 ohm-cm
<b>Shielding Effectiveness 20MHZ-10GHZ (E-Field), dB</b>	>110	MIL-DTL-83528	>140 dB
<b>Compression Deflection, %</b>	2.5 min	MIL-DTL-83528	8.6 %
<b>Compression Set, % (70 hours at 100°C)</b>	35 max	ASTM D395B	30 %
<b>Electrical Stability after Break, ohm-cm</b>	0.010 max	MIL-DTL-83528	0.002 ohm-cm
<b>Low Temperature Retraction, TR-10 and TR-70, °C</b>	-45 / -35 max	ASTM D1329	-71 / -47 °C
<b>Volume Resistivity after EMP, ohm-cm</b>	0.010 max	MIL-DTL-83528	0.004 ohm-cm
<b>Electrical Stability during and after Vibration, ohm-cm</b>	0.010 / 0.005 max	MIL-DTL-83528	0.002 / 0.001 ohm-cm
<b>Volume Resistivity after Life Testing (1000 hrs), ohm-cm</b>	0.010 max	MIL-DTL-83528	0.0008 ohm-cm
<b>Volume Resistivity after Life Testing (48 hrs), ohm-cm</b>	0.010 max	MIL-DTL-83528	TBD
<b>Thermal Stability Range, °C</b>	-45 – 125°C	-	-45 – 125°C

#### **CATALYZING**

Raw material available catalyzed and ready for press cure molding. Data above was generated with DBPH catalyst system.

#### **SHELF LIFE**

Catalyzed – 6 months. Cold storage will extend shelf life.

#### **HANDLING & SAFETY**

SDS information is available on request.

For more information visit [www.sspinc.com](http://www.sspinc.com). To order call (518) 885-8826/ or Fax (518) 885-4682.

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