

Conductive Silicone Elastomer

PRODUCT DESCRIPTION

SSP2569 is a 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. SSP2569 was designed to meet the MIL-DTL-83528 Type A specifications and is on the Qualified Product List (QPL). Notification of Qualification, VQ (VQH-21-036367).

DATA	SPEC	Method	Typical Values
Hardness, Shore A	58-72	ASTM D2240	70
Tensile strength, psi	200 min	ASTM D412	390 psi
Elongation, %	100-300	ASTM D412	150 %
Tear Strength Type C, ppi	25 min	ASTM D792	50 ppi
Specific Gravity	3.05 – 3.96	ASTM D792	3.40
Volume Resistivity, ohm-cm	0.004 max	MIL-DTL-83528	0.0015 ohm-cm
Shielding Effectiveness 20MHZ-10GHZ (E-Field), dB	>110	MIL-DTL-83528	>145dB
Compression Deflection, %	3.5 min	MIL-DTL-83528	8.5 %
Compression Set, % (70 hours at 100°C)	32 max	ASTM D395B	26 %
Electrical Stability after Break, ohm-cm	0.008 max	MIL-DTL-83528	0.002 ohm-cm
Low Temperature Retraction, TR-10 and TR-70, °C	-55 max	ASTM D1329	-70 / -70 °C
Volume Resistivity after EMP, ohm-cm	0.010 max	MIL-DTL-83528	0.005 ohm-cm
Electrical Stability during and after Vibration, ohm-cm	0.006 / 0.004 max	MIL-DTL-83528	0.004 / 0.0009 ohm-cm
Volume Resistivity after Life Testing (1000 hrs), ohm-cm	0.010 max	MIL-DTL-83528	0.009 ohm-cm
Volume Resistivity after Life Testing (48 hrs), ohm-cm	0.010 max	MIL-DTL-83528	0.002 ohm-cm
Thermal Stability Range, °C	-55 – 125°C	-	-55 – 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. To order call (518) 885-8826/ or Fax (518) 885-4682.

Specialty Silicone Products, Inc.

Corporate Technology Park * 3 McCrea Hill Road * Ballston Spa, NY 12020

Specialty Silicone Products, Inc is an ISO 9001:2015 registered company.

Because we cannot foresee or control varied conditions, under which this information and our materials may be used, we do not guarantee the applicability or accuracy of this information or the suitability of our materials for their specific purposes. This material is provided without warranty, either expressed or implied, of fitness for a specific purpose or nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents.