

## Commercial Grade Conductive Elastomers Sheet Stock, Die Cut, and Moldable Form

CHO-SIL® 1310, CHO-SEAL® 1350, CHO-SEAL 1291, CHO-SEAL S6304 and CHO-SEAL S6305 are electrically conductive elastomers specially formulated to provide shielding against electromagnetic interference (EMI). They form the high-performance end of Chomerics' family of products designed for commercial EMI gasket applications.

These silicone-based materials offer excellent resistance to compression set over a wide temperature range, resulting in years of continuous service. They are filled with silver-plated particles, which,

because of their composition, size distribution, and morphology, provide excellent conductivity and long-term stability. In addition to EMI shielding, these materials will provide an environmental or pressure seal if required.

These materials vary in EMI shielding effectiveness, allowing for a cost-performance material choice to provide the needed level of attenuation. These material have exceptionally low volume resistivity which makes them suitable for grounding applications in which a flexible electrical contact is needed.

These materials are available in sheet stock, die cut, and moldable forms. (See Chomerics Technical Bulletin #20 for extrusion grades.) Many standard part configurations are available and listed in the Chomerics catalog. Custom shapes can be tailored to meet specific applications.

To obtain more information on Chomerics' family of products or for design assistance, contact the nearest Chomerics office listed below.

	Test Procedure	CHO-SIL 1310	CHO-SEAL 1350	CHO-SEAL 1291	CHO-SEAL S6304	CHO-SEAL S6305
Elastomer Binder		Silicone	Silicone	Silicone	Silicone	Silicone
Conductive Filler		Ag/Glass	Ag/Glass	Ag/Cu	Ni/C	Ni/C
Volume Resistivity (ohm-cm, max.) as supplied (without pressure-sensitive adhesive)	CEPS-0002*	0.01	0.01	0.004	0.1	0.1
Hardness (Shore A)	ASTM D2240	70 ±10	65 ±10	70 ±5	55 ±10	65 ±10
Specific Gravity (typ.)	ASTM D792	1.7-1.9	1.80	3.45	1.9	2.0
Tensile Strength psi, min. (MPa, min.)	ASTM D412	200 (1.38)	150 (1.03)	175 (1.21)	150 (1.04)	200 (1.38)
Elongation (percent, min.)	ASTM D412	100	75	75	100	100
Compression Set, 70 hrs. @ 100°C (percent, max.)	ASTM-D395 Method B	35	30	32	25	25
Shielding Effectiveness (dB)	Modified MIL-STD-285 Reference measured through 24" x 24" (610mm 610mm) opening	100 100 90 80	100 100 90 80	100 100 100 100	100 100 100 100	100 100 100 100
Heat Aging (ohm-cm, max.)	CEPS-0002*	0.01	0.01	0.008	0.25	0.25

\* Copies of CEPS-0002 are available from Chomerics.