



E-Song America, Inc.

100%
RoHS Compliant
Products

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CONDUCTIVE SILICONE ELASTOMER

Characteristic

This product is manufactured by extrusion or hot-press process while mixing conductive metal powder and silicon in a proprietary ratio. The metal powder gives excellent electric conductivity and the silicon rubber binder provides excellent thermal durability and hermetical seal. It is also environmentally friendly.

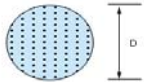
There are three conductive fillers available: Ag/Cu, Ni/Graphite, and Carbon. Choice is made depending on the required resistance level and cost consideration.

Application

- Where both EMI shielding and hermetical sealing are required
- Where both EMI shielding and extreme heat durability are required
- Medical devices
- Military communication devices
- Military air-conditioning system

Available Profiles

1. Solid Round



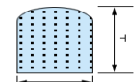
Dia: 0.71
to 4.57 mm

2. Tube



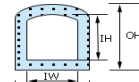
Dia: 1.52
to 6.35 mm

3. Solid D



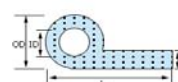
W: 1.57 mm
H: 1.73 mm

4. D Tube



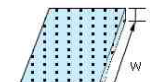
OH: 4.0 mm
OW: 4.0 mm
IH: 3.0 mm
IW: 3.0 mm

5. P Shape



OD: 5.0 mm
ID: 4.0 mm
T: 2.0 mm
L: 10.0 mm

6. Sheet

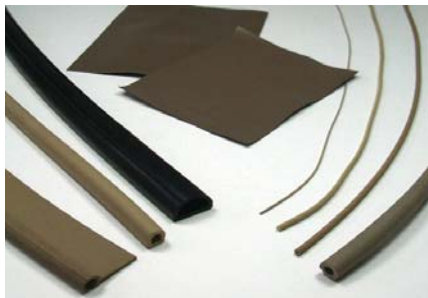


Die-cut sizes
and profiles
available.

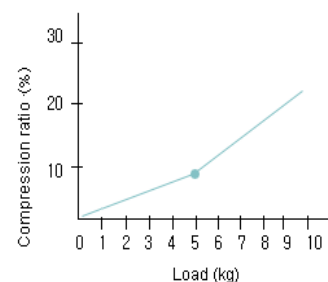
	W	T	L
	10.00	1.00	25m
	20.00	1.00	25m
	1.20	1.20	25m
	19.00	1.50	25m
	3.18	1.57	25m
	4.75	1.57	25m
	2.16	2.16	25m
	3.20	3.20	25m

Material and Technical data

	CSREA-AGCU	CSREA-NIG	CSREA-C	TEST METHOD
Conductive Filler	Ag-plated Cu	Ni & Graphite	Carbon	
Hardness (Shore A)	50~70	50~70	60~70	ASTM D2240
Specific Gravity (g/cm ³)	3.5~4.0	2	1.6	ASTM D792
Volume Resistivity (ohm-cm)	0.02	0.1	5	ASTM D257
Elongation (%)	100	100	200	ASTM D412
Tensile Strength (kgf/cm ²)	16~17	16~17	65~72	ASTM D412
Tear Strength (kgf/cm)	6~7	6~7	12~14	ASTM D6248
Continuous Usage Temp. (°C)	-55 to +160	-55 to +170	-55 to +200	



CSREA-AGCU Load/Compression Ratio



Example Applications

