

Conductive Elastomer Adhesive (8100 Series)

A conductive elastomer adhesive material is a unique composite of high quality silicone and conductive adhesive products with an array of electrical and physical properties to suit your application.

Product Application

This conductive elastomer adhesive is a unique composite of high quality silicone and conductive microscopic metallic particles. The adhesive is manufactured to strict formulations yielding a gasketing adhering material that compliments conductive elastomer material that meets military and commercial EMC test requirements. The surface that this adhesive is to be applied must be conductive and clean meaning no non-conductive paints, oils, or coatings. If a non-conductive surface is present on the mating or mounting surface the electromagnetic attenuation will be greatly degraded. Contact MAJR Products Corporation for product configurations and part numbers.



Product Technical Data

Volume Resistivity OHM-CM	Nickel Graphite	Silver Glass	Silver Nickel	Silver Aluminum	Silver Copper	Pure Silver
	0.06	0.01	0.008	0.01	0.008	0.005
Consistency	thick paste	thick paste	thick paste	thick paste	thick paste	thick paste
Lap Shear Strength Minimum (PSI)	150	120	120	175	200	225
Operating Temp. Range (F°)	-55 / +400	-55 / +400	-55 / +400	-55 / +400	-55 / +400	-55 / +400
Skin Over (MIN)	15	15	15	15	15	15
Tack Free (MIN)	90	90	90	90	90	90
Cure for Handling (HRS)	12 - 24	12 - 24	12 - 24	12 - 24	12 - 24	12 - 24
Full Cure (HRS)	72-144	72-144	72-144	72-144	72-144	72-144

Product Technical Data

	Nickel Graphite	Silver Glass	Silver Nickel	Silver Aluminum	Silver Copper	Pure Silver
Color	dark gray	light tan	tan	tan	dark tan	tan
Durometer Shore A	65	70	75	68	70	65
Tensile Strength PSI (MIN)	540	415	285	260	285	280
Elongation % (MIN)	210	100	150	155	150	165
Tear Strength # / IN (MIN)	90	52	50	45	50	54
Specific Gravity	2.29	1.82	3.58	1.86	3.58	4.20

INSTRUCTIONS FOR USE:

If bonding is a requirement, surfaces must be clean and no evidence of oil or chemicals films. Use toluene and then an isopropyl alcohol wipe. Other solvents are acetone or xylene. The conductive elastomer adhesives will bond to most substrates; however, there are primers available especially for RTV conductive adhesives. Caulkers which are not completely used must be sealed to avoid curing of the remaining material.

STORAGE/SHELF LIFE:

Store at room temperature (75° F). Storing at lower temperatures will extend shelf life. Normal conditions, if left in the vacuum sealed bag shelf life is 1 year.

HANDLING AND SAFETY:

Contact with the skin or eyes may be irritating. If material is accidentally deposited on the skin, wipe off with a dry cloth or paper towel, then with a hand cleaner, clean the area, then wash with soap and water.

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