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105-48

SEMI-CONDUCTIVE PRESSURE SENSITIVE ADHESIVE

DESCRIPTION: 105-48 is a flexible, semi-conductive, silicone, pressure sensitive adhesive. The overall balance of peel strength, cohesion, lap shear strength and high temperature holding power provides a versatility that makes this product useful in a wide range of fastening and bonding applications. This product is very resistant to flexing and creasing. Some applications for 105-48 include, but are not limited to, electrostatic discharge, polymer thick film circuitry and membrane switches.

TYPICAL CURED PROPERTIES:

Consistency	Smooth Paste
Filler	Carbon Blends
Crease Resistance	Excellent
Volume Resistance (Ω -cm)	$< 1 \times 10^4$
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-70 to +260
Thermal Stability ($^{\circ}$ C)	Good to 325

SUGGESTED HANDLING & CURING: 105-48 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of xylene. Prior to using, be certain to re-suspend fillers. Apply thin film of adhesive to both surfaces to be bonded. Allow solvent to evaporate completely at room or at slightly elevated temperature. Assemble parts, applying slight pressure to assure good mating of surfaces and formation of fillet. No further curing is necessary; however best properties, for most applications, result when cured for 1 minute at 160 $^{\circ}$ C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 180 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf life - 6 months at 25 $^{\circ}$ C; or 9 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ C.

SAFETY & HANDLING: Contains flammable solvents. Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to suitability in a particular application or possible infringements on patents.

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