ELECTROLUBE
THE SOLUTIONS PEOPLE

TCP400
Thermally Conductive Putty

TCP400 is a single part dispensable material with high heat transfer performance. The unique formulation means TCP400 can be used on vertical surfaces, it is very soft and exerts low stress on components; the low modulus elastomer shows excellent 'pump-out' resistance and minimal oil bleed. TCP400 can be used as supplied, it requires no pre-mixing and is ideal for automated applications for simple processing.

- Simple process; single part dispensable material, easy application
- No drip and minimal crack when applied on vertical surfaces
- High thermal conductivity; 4.0 W/mK
- Moderate surface tack making it easy for rework

Approvals	**RoHS Compliant (2015/863/EU):**	**Yes**

Typical Properties

Colour	Blue
Density (g/ml)	3.2
Thermal Conductivity (W/m.K)	4.0
Operating Temperature Range (°C)	-50 to 200
Flow Rate (@ 30cc taper tip,0.130" orifice, 90 psi)	20 g/min
Breakdown Voltage (kV/mm)	8
Dielectric Constant @ 1MHz	8.6
Volume Resistivity (ohm-cm)	10^{14}
Heat Capacity (J/gK^{-1})	1
Weight loss (150°C @ 48h)	0.045%
Flammability Rating	Meets UL 94 V-0
Typical Minimum Bond Line Thickness	0.1 mm

Description	Packaging	Order Code	Shelf Life
TCP400	310ml cartridge	ETCP400_310ML	18 Months

*Other pack sizes may be available upon request.

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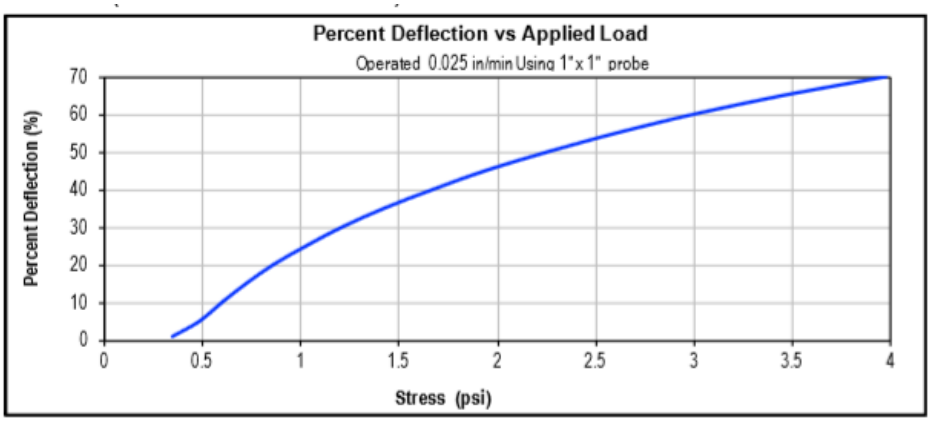
BS EN ISO 9001:2008
Certificate No. FM 32082

Percentage Deflection at Various Force Levels



Typical Applications

Typical applications for TCP400 include automotive electronic control units, microprocessors/graphics processors, telecom devices, memory and power modules, power supplies and semiconductors, consumer electronics.

Directions for Use

Substrates should be thoroughly cleaned before coating. This is required to ensure that satisfactory adhesion to the substrate is achieved and to prevent flux residues causing corrosion on the PCB. Electrolube manufacture a range of cleaning products using both hydrocarbon solvent and aqueous technology, which all produce results within Military specification.

Additional Information

Storage: Keep lids tightly sealed. Store between 5 to 35°C in a humidity below 50%RH. Do not freeze.

Health & Safety: Always refer to the Health & Safety data sheet before use. These can be downloaded from www.electrolube.com

Revision 2: Jan 2019

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