

## 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 <sup>14</sup>
Heat Capacity (J/gK <sup>-1</sup> )	1
Weight loss (150°C @ 48h)	0.045%
Flammability Rating	Meets UL 94 V-0
Typical Minimum Bond Line Thickness	0.1 mm

<u>Description</u>	<u>Packaging</u>	<u>Order Code</u>	<u>Shelf Life</u>
TCP400 *Other pack sizes may be available upon request.	310ml cartridge	ETCP400_310ML	18 Months

#### Copyright Electrolube 2013

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

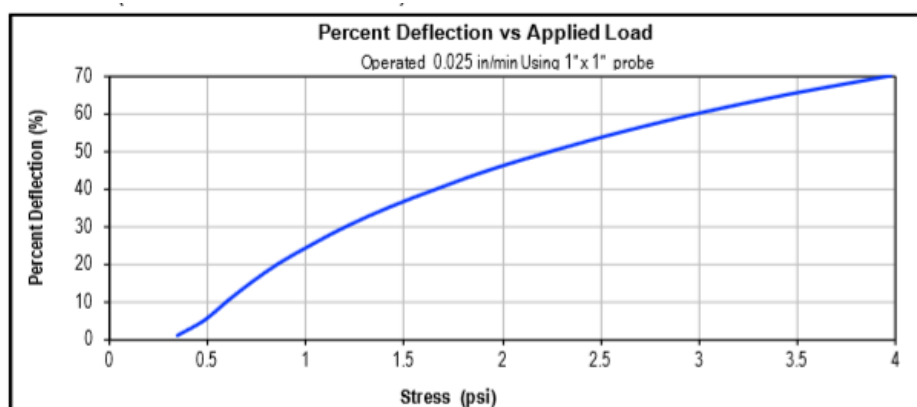
Ashby Park, Coalfield Way,  
Ashby de la Zouch,  
Leicestershire LE65 1JR

T +44 (0)1530 419 600

F +44 (0)1530 416 640

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](http://www.electrolube.com)

Revision 2: Jan 2019