

## TCP091 (THERMAL CONDUCTIVE PASTE)

TCP091 is a one component, Non-drying thermally conductive paste.  
TCP091 contains NO SILICONE. It is based on a synthetic base-stock.  
The filler content has been specifically chosen to enable close-proximity of heat sink to substrate and maintains good thermal conductivity at all temperatures.

TCP091 is one of a range of thermal management products Robnor Resinlab offer.  
For other products including two component resins please contact our Technical department for guidance.

### Key Properties

- Good thermal conductivity
- Non- Silicone
- Excellent flow Thixotropic (Non- Slumping) yet still has flow through a small nozzle with minimum effort.
- Excellent resistance to mould growth.
- Excellent dielectric properties at all frequencies
- Non-corrosive to Cadmium and Zinc plate
- Operating temperature range -50 to +130°C
- REACH & ROHS compliant: Contains NO SVHC's

Typical Properties	Result	Unit
Colour	White	
Weight loss (24 hours @150°C)	0.52	%
Viscosity (@ 20°C)	200	Pa.s
Specific gravity g/cm <sup>3</sup> (@ 20°C)	2.0	
Thermal Conductivity	0.91	W/m.k
Dielectric Strength	45	kV/mm
Dielectric Constant (@ 20°C)	2.5	100Hz
Dissipation factor (@ 20°C)	0.028	100Hz
Volume Resistivity	1 x 10 <sup>15</sup>	ohm.cm
Insulation resistance	1 x 10 <sup>12</sup>	ohms
Temperature range	-50 to +130	°C

Contact: **Technical Support on 01793 823741 or [support@robnor.co.uk](mailto:support@robnor.co.uk)** for details.

### Processing

TCP091 is usually applied direct from the syringe or precision dispenser.

### Approvals

RoHS compliant	Yes
UL94-V0	No
REACH (SVHC concentration)	Refer to SDS

### Availability

Available through distribution [www.resins-online.com](http://www.resins-online.com) and [sales@robnor.co.uk](mailto:sales@robnor.co.uk)

Part Numbers	Syringes	Bulk
	TCP091/010S – 10ml	TCP091/591G
	TCP091/030S – 30ml	TCP091/1KG
		TCP091/25KG

## Storage and Shelf Life

12 months at 25°C in Syringes. Store horizontally. "Product may settle during storage, if this occurs; dispense and discard any clear liquid"

12 months at 25°C Bulk packaging. "Product may settle during storage, if this occurs; thoroughly stir the material until uniform before use".

Storage at 25 +/- 10°C is optimum for most products

Some systems are prone to settling due to high filler content and should be inverted every two to three weeks to reduce the accumulation of the fillers on the bottom of the containers.

Inventory should be rotated on a FIFO (first in, first out) basis.

## Health and Safety

Please refer to TCP091 Health and Safety data or our Technical Service Department for individual/specific advice.

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The results and information above does not constitute a specification and is given in good faith and without warranty. The information is derived from test/or extrapolations believed to be reliable and is quoted for guidance only. The product is offered for evaluation on the understanding the customer satisfies himself that the product is suitable for the intended application by proper evaluation and testing.

## Contact Details

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