

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 (@ 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 ¹⁵ | ohm.cm |
| Insulation resistance | 1 x 10 ¹² | ohms |
| Temperature range | -50 to +130 | °C |

Contact: Technical Support on 01793 823741 or 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) | 0% |

Availability

Available through distribution www.resins-online.com and sales@robnor.co.uk

| Part Numbers | Syringes | Bulk |
|--------------|----------------------------|-------------------------|
| | TCP091/010S – 10ml Syringe | TCP091/591G – 591g Bulk |
| | TCP091/030S – 30ml Syringe | TCP091/1KG – 1kg Bulk |
| | | TCP091/25KG – 25kg Bulk |

Storage and Shelf Life

Material stored in the original unopened containers under cool dry condition between 10 and 25°C will have a shelf life of three years.

Once used the containers must be kept sealed to prevent effects from water, air or contaminants.

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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