Highly Thermally Conductive RTV

TECHNICAL DATA SHEET



Product Code: TCR / TCRGUNB

PRODUCT DESCRIPTION

Electrolube TCR is a one component, low odour, high strength RTV with a very high degree of thermal conductivity. It is a 100% solids material (solvent free) with a very wide temperature range making it ideal for a wide range of uses particularly engineering applications where its non-corrosive properties are of critical importance. **Electrolube TCR** combines the properties of silicone rubber pads with those of a conventional heat transfer paste, and can be used as a low bond strength adhesive, sealant or gasketing compound.

Electrolube TCR GUN is a dispensing method for use with TCR75S. The product fits inside the dispensing unit; a trigger is pulled which forces out the product. This is a very easy and accurate dispensing method for TCR75S.

PRODUCT USE

Electrolube TCR is applied between components that may overheat and heat sinks to ensure rapid heat transfer. The high bond strength allows use prior to soldering for SM components.

FEATURES

* Maximum continuous operating temperature = 230°C, Peak = 250°C
* Excellent thermal conductivity, 1.79 W/m.K
* Good electrical insulation characteristics.
* Components operate at thermal equilibrium thus ensuring uniform performance throughout the temperature range.
* Remains flexible and elastic at high temperatures.

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ELECTROLUBE, A division of H K Wentworth, Kingsbury Park, Midland Road, Swadlincote, Derbyshire, DE11 0AN
Tel: +44(0) 1283-222111 Fax: +44(0) 1283-550177 www.electrolube.com
ISO 9002 Registered Firm. Certificate No. FM 32082

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APPLICATION

Surfaces must be clean and dry and free from grease, dust and contaminants - use **Electrolube Ultrasolve (ULS)** for this application. Ensure that solvents have completely evaporated before application. **TCR** is a moisture curing system. Therefore relative humidities above 50% are preferred for curing. The use of elevated temperatures will not increase the speed of cure and is not recommended.

TYPICAL PROPERTIES

Colour:	White
Viscosity:	Non Slump Paste
Thermal Conductivity:	1.79 W/m.K
Tensile Strength:	2MPa
Elongation:	300%
Temperature Range :	-50ºC to 250°C (Short Term), 230ºC Continuous
Specific Gravity:	2.3
Skin forming rate*:	3-8 minutes
Dielectric Strength:	>8 kV/mm
Volume Resistivity:	1 x 10^{14} Ohms-cm
Cure time (Hours@20°C)	24
Shelf Life	12 Months

* Skin forming rate is dependent upon ambient conditions of temperature and humidity.

PACKAGING

75ml Syringe
Dispensing Gun for 75ml Syringe
310ml Cartridge, 700G

NATO Stock no: 8030-99-842-0038

ORDER CODE

TCR75S
TCRGUNB
TCR700G

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