SILICONE POTTING GEL TCR-G-SI-2C



dispensable / 2 parts

TCR-G-SI-2C is a 2-part addition cure silicone potting compound which is filled with thermally conductive fillers of high temperature stability. It is characterised by very good dielectric and mechanic properties and is suited for encapsulating electric and electronic parts such as transformators, capacitors, inductors, sensors, LEDs and can be moulded or dispensed under normal conditions at room temperature or in vacuum. Its rheologic behaviour allows for usage in geometries that are difficult to access.



- ☐ 2 kg / 40 kg AB Kit
- Other containers on request
- MOQ: 40 kg

AVAILABILITY

PROPERTIES

- ☐ Silicone
- 2 part addition cure
- ☐ Thermal conductivity: 1.19 W/mK
- ☐ Almost zero stress on components
- Dispensable or mouldable
- Heat accelerated curing
- High resistivity against water and humidity
- ☐ Shock absorbing

APPLICATION EXAMPLES

Thermal link of:

- Inductors
- Capacitors
- ☐ Heat Pipes
- BGA

For use in Automotive applications / Telecommunication / Controlling units / Industrial PCs

Property	Unit	A Part	B Part
Material		Silicone	Hardener
Colour		White	Grey
Density @ 23 °C	g/cm³	2.10	2.10
Mixing Ratio	Weight or Volume	1 : 1	1:1
Hardness (cured elastomer after 15 minutes @ 150 °C)	Shore A	65	65
Viscosity (Brookfield)	Pas	6	6
Viscosity (Mixed) (Brookfield)	Pas	6	6
Tensile Strength (cured elastomer after 15 minutes @ 150 °C)	psi	152	152
Elongation at Break (cured elastomer after 15 minutes @ 150 °C)	%	50	50
Coefficient of Thermal Expansion (cured elastomer after 15 minutes @ 150 °C) Volumetric Linear	1 x 10 ⁻⁶ /K 1 x 10 ⁻⁶ /K	465 155	465 155
Pot Life @ 23 °C, 50 % rel. H.	min	ca. 180	ca. 180
Curing Time @ 25 °C / 80 °C / 110 °C / 150 °C		24 h / 60 min / 35 min / 15 min	24 h / 60 min / 35 min / 15 min
Shelf Life (from Date of Manufacturing, unopened, @ < 25 °C)	Months	24	24
Flammability (Expected Equivalent) @ 3 mm / 1.5 mm	UL 94	VO / V1	VO / V1
RoHS Conformity	2011 / 65 / EU	Yes	Yes
Technical			
Thermal Conductivity	W/mK	1.19	1.19
Operating Temperature	°C	- 50 to + 200	- 50 to + 200
Dielectric Strength	kV/mm	> 10	> 10
Volume Resistivity	Ohm-cm	5.06 x 10 ¹³	5.06 x 10 ¹³
Dielectric Constant	@ 1 kHz	4.92	4.92
Dissipation Factor	@ 1 kHz	0.005	0.005

 $All\ data\ without\ warranty\ and\ subject\ to\ change.\ Please\ contact\ us\ for\ further\ data\ and\ information.$