

SILICONE POTTING GEL TCR-D-SI-2C

dispensable / 2 parts

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



Release 09 / 2026

PROPERTIES

- ☐ Silicone
- ☐ 2 part addition cure
- ☐ Thermal conductivity: 0.68 W/mK
- ☐ Remains elastic after curing
- ☐ Almost zero stress on components
- ☐ Dispensable or mouldable
- ☐ High resistivity against water and humidity
- ☐ Shock absorbing

AVAILABILITY

- ☐ 2 kg / 40 kg (2 x 20 kg) AB Kit

APPLICATION EXAMPLES

Thermal link of:

- ☐ Inductors
- ☐ Capacitors
- ☐ Heat Pipes
- ☐ BGA

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

Technical Data Sheet

PROPERTY	UNIT	A PART	B PART
MATERIAL		Silicone	Hardener
Colour		Beige	Black
Physical state		Liquid	Liquid
Density @ 23 °C	g/cm³	1.63	1.63
Mixing Ratio	Weight or Volume	1:1	1:1
Hardness	Shore A	45	45
Viscosity (Brookfield)	Pas	6	6
Viscosity (Mixed) (Brookfield)	Pas	6	6
Tensile Strength (cured elastomer after 7 minutes @ 150 °C)	psi	252	252
Elongation at Break (cured elastomer after 7 minutes @ 150 °C)	%	240	240
Tear strength	ppi	45	45
Coefficient of Thermal Expansion (cured elastomer after 7 minutes @ 150 °C)			
Volumetric	1 x 10 ⁻⁶ /K	650	650
Linear	1 x 10 ⁻⁶ /K	217	217
Pot Life @ 23 °C	min	ca.100	ca. 100
Curing Time @ 150 °C	min	15	15
Full Cure @ 23 °C	h	24	24
Shelf Life (from Date of Manufacturing, unopened, @ < 30 °C)	Months	24	24
Flammability	UL 94	V0	V0
RoHS Conformity	2015 / 863 / EU	Yes	Yes
TECHNICAL			
Thermal Conductivity	W/mK	0.68	0.68
Operating Temperature	°C	- 55 to + 240	- 55 to + 240
Dielectric Strength	kV/mm	19,7	19,7
Volume Resistivity	Ohm - cm	4.02 x 10 ¹⁴	4.02 x 10 ¹⁴
Dielectric Constant	@ 1 kHz	3.08	3.08
Dissipation Factor	@ 1 kHz	0.009	0.009

Typical, non-binding values. Not intended for specification purposes. Subject to technical changes. Please contact us for further information.

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