

TDG-Z10-SI-2C-LV is a 2-part dispensable low volatile LV silicone gap filler which is filled with thermally conductive fillers. The special filler-matrix configuration enables good dispensability with high flow behavior given excellent thermal conductivity. After curing under heat the system remains elastic. It is characterised by very good dielectric and mechanic properties and is suited for compensating extreme tolerances and spaces at non-coplanar systems. Its thixotropic behaviour allows for a definite placement and cure-in-place. It has a natural low level tack that enhances a good thermal contact. Due to its negligible and controlled volatile content it is suited for environments where volatile silicones are critical.



PROPERTIES

- ☐ Dispensable 2-part silicone
- ☐ High flow behavior
- ☐ Low volatile siloxane content (LV)
- ☐ Thermal conductivity: 10 W/mK
- ☐ Remains elastic after polymerisation
- ☐ Zero stress on components
- ☐ Heat accelerated curing
- ☐ Shock absorbing

AVAILABILITY

- ☐ Cartridges 2 x 25 ml / 2 x 200 ml / 2 x 600 ml
- ☐ Pail 2 x 25 kg

APPLICATION EXAMPLES

- Thermal link of:
- ☐ FPBGA
  - ☐ Capacitors
  - ☐ Heat Pipes
  - ☐ BGA
- For use in Automotive applications / Telecommunication / Multimedia / Industrial PCs

PROPERTY	UNIT	A Part	B Part
MATERIAL		Silicone	Silicone
Colour		Dark grey	Light grey
Density @ 25 °C	g/cm³	3.25	3.25
Mixing Ratio	Weight or Volume	1 : 1	1 : 1
Hardness	Shore 00	55	55
Viscosity	Pas	500	500
Viscosity (mixed)	Pas	500	500
Flow rate	g/min	15	15
Pot Life @ RT	Minutes	~60	~60
Curing Time @ 23 °C / 100 °C	Hours / Minutes	< 24 / 30	< 24 / 30
Shelf Life (from Date of Manufacturing, unopened, dry storage conditions @ ≤35 °C, < 75% RH)	Months	6	6
Flammability (Equivalent)	UL 94	V0	V0
RoHS Conformity	2015 / 863 / EU	Yes	Yes
TECHNICAL			
Thermal Conductivity¹	W/mK	10	10
Operating Temperature	°C	- 50 to + 160	- 50 to + 160
Dielectric Strength	kV/mm	> 6	> 6
Volume Resistivity	Ohm - cm	≥ 1 x 10¹³	≥ 1 x 10¹³

Measurement technique according to: ¹ASTM D 5470. All data without warranty and subject to change. Please contact us for further data and information.  
Warning: Only A / B part of the same lot number may be processed together.

