TG4040-D
Silicone Thermal Putty

Version 1.240919

Silicone Thermal Putty

TG4040-D is an ultra-conformable, one part, high-performance silicone putty. It is designed for when heat transfer is needed between delicate components where the pressure must be minimised. TG-4040D is designed to fill gaps from 0.25 – 8mm with little or no stress generated. The silicone based formulation will adhere to all surfaces, such as metal housings, ceramic and plastic IC packages and FR4 boards to give a low thermal resistance path for heat transfer.

TG-4040-D is available in syringes (90g and 165g) and pots (1kg).

Features

Smooth surface & low contact resistance
Usable over a wide temperature range
Electrical insulation
High breakdown voltage
Complies with UL standards

Applications

Electronic components: IC, CPU, MOS, LED, M/B, P/S, Heat Sink, LCD, TV, Notebook, PC, PC Telecom Device, Wireless Hub, etc.
DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

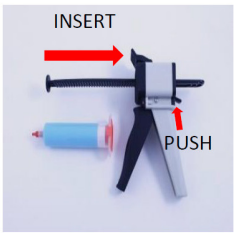
✓ REACH Compliant
✓ ROHS Compliant

Property	TG4040-D	Unit	Tolerance	Test Method
Colour	Blue	-	±0.3	Visual
Viscosity 0.5rpm	3,000	Pa · s	-	Brookfield
Density	3.2	g/cm³	-	ASTM D792
Thermal Conductivity	3.0	W/mk	-	ASTM D5470
Volume Resistivity	10^{13}	Ohm cm¹	-	ASTM D257
Working Temperature	-50 to 180	℃	-	-

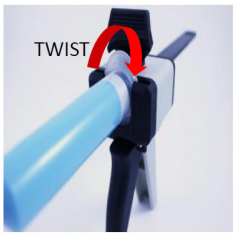
Reliability - Thermal Impedance

Time	Initial	200 Hr	400 Hr	700 Hr	1000 Hr
125°C Aging	0.058	0.059	0.060	0.059	0.060
160°C Aging	0.058	0.059	0.060	0.060	0.0592
85°C/85% RH	0.058	0.59	0.060	0.059	0.060

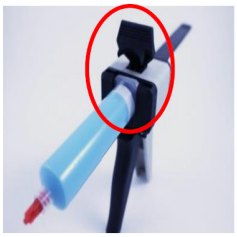
Operation Manual-Gel Gun



STEP1-Push the latch and insert the stick



STEP 2-Put the tube in and twist


STEP3-Close the cover

STEP4-Take off the plug

* Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

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