

# TG 997

## Silicone Thermal Pad

Version 2.130218



### Silicone Thermal Pad

TG997 is a soft, silicone thermal pad, suitable for use as thermal interface material or heat sink to dissipate the heat from electronic devices, especially in integrated circuit (IC) and LED packaging. TG997 offers low thermal impedance, good surface compliance and a high dielectric breakdown voltage. This thermal pad has very low hardness and elasticity, and yet provides high thermal conductivity, good high temperature resistance and good electrical insulation. TG997 can be supplied in a wide range of formats ranging from custom die cut parts to standard sheets in a range of thicknesses depending on the end application.

### Features

- Very good thermal conductivity
- Very soft and high compressibility
- Natural tack
- Easy to assemble
- Very good insulator

### Applications

Heat dissipation from electronic components.

### Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

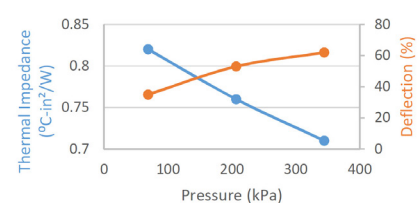
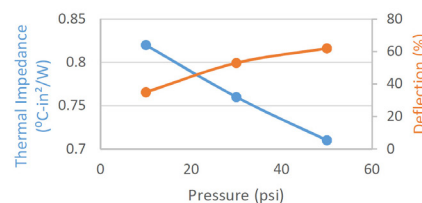
Property	TG 997	Unit	Tolerance	Test Method
Appearance	Blue	-	-	-
Operating temperature	-40 to 200	°C	-	ASTM D412
Thermal Conductivity	2.4	W/mK	-	ASTM D5470
Density	1.8	g/cm <sup>3</sup>	-	ASTM D792
Hardness	10	Shore A	-	ASTM D4120
Shelf Life	36	months	-	-
Shelf Life with adhesive (can be requalified for further 12)	12	months	-	-

### Part Number Information

Product	Length	Width	Thickness
TG 997	288	192	0.5mm-5.0mm

\* All measurements in mm

### Thermal Impedance vs Pressure



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## Dimensional Tolerance

Die-Cut Thickness Tolerances	Thickness (mm)	Tolerance (mm)
	0.3	±0.03
	0.5	±0.05
	0.8	±0.08
	1.0	±0.1
	1.2	±0.12
	1.5	±0.15
	2.0	±0.2
	2.5 - 3.5	±0.25
	4.0 - 4.5	±0.3
	5.0	±0.35
	6.0 - 8.0	±0.4
	9.0	±0.45
	10.0	±0.5
>10.0	±0.5	

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

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