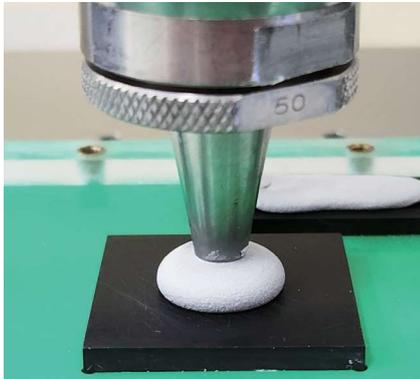




COOLPROVIDE™ / CPVG



Dispense-friendly, no-drip, single-liquid thermal putty

- Effectively fills gaps between heat spreaders and ICs with different heights.
 - CPVG-30 : GAP 1 mm or less
 - CPVG-50 : GAP 2mm or less NEW
- As a putty, its low repulsion force after compression reduces load on ICs and PCBs compared to sheet-type TIMs.
- Because the pre-crosslinked state provides structural stability, no curing process (such as heating or UV) is required and will not drip immediately after application.
- Applied using a manual caulking gun or an automated dispenser.
- Silicone-free TIM generates no siloxane gas and has less oil bleeding.



Application Example

[For both CPVG-30 and -50]

- Consumer equipment (semiconductor devices such as PCs, TVs, and home appliances)
- Telecommunication (5G antennas, etc.)

[For CPVG-50]

- Automotive (inverters, in-vehicle infotainment, etc.)

Specifications

Properties

(The values below are measured and are not guaranteed.)

Test Item	Unit	Standard	CPVG-30-C	CPVG-50-P
Thermal Conductivity	W/m · K	ISO22007-2 (Hot Disk Method)	3.0	5.0
Thermal Resistance*1	t1.0mm	ASTM D5470	0.33	0.19
	t0.3mm		0.08	0.05
	t0.1mm		0.01	—
Color	—	—	White	White
Specific Gravity	—	JIS Z 8807	2.9	3.2
Viscosity	0.5[1/s]	According to ASTM D1824	3300	—
	1.0[1/s]		2500	—
	10rpm	—	600	1000
Recommended Thickness	mm	—	0.1 ~ 1.0	0.3 ~ 2.0
Volume Resistivity	Ω · cm	According to JIS K 6911	1.0 × 10 ⁹	1.0 × 10 ⁹
Dielectric Breakdown Voltage	kV/mm	According to JIS K 6911	8	3
Dielectric Constant	1 MHz	Company Standard	9.25	13.2
Dielectric Loss Tangent	1 MHz	Company Standard	0.06	0.07
Shelf Life (25℃)	—	Company Standard	6 months after delivery	6 months after delivery
Flame Resistance	—	UL94	V-0 equivalent	V-0 equivalent
Operating Temperature	℃	—	-40 ~ 125	-40 ~ 130

*1) Sample size : □25mm

- For correct and safe uses of our products, please refer to parts specifications and test reports for further details on its features.
- The specifications are for reference only, and not a guarantee. Information may change without notice.
- Any reprinting or copying of content in this document is prohibited without our prior consent.

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