

3D THERMAL GAP PAD

THERMAL INTERFACE MATERIAL SOLUTION



FLEXIBLE

E < 30 Durometer



3D GEOMETRY

Flexible shape design



REVERSIBLE

<20% Low Compression
Permanent Strain Rate



REWORKABLE

Easily peeled and reused



USABLE TEMPERATURE

~40 to ~150°C

RECOMMENDED FOR

Automotive Application: LiB pack, OBC,
Junction Box, BDU..



FLAME RETARDENCY

V-0 Equivalent



LiB/ Quick charge
On Board Charger



BMS Junction Box/
Bus bar

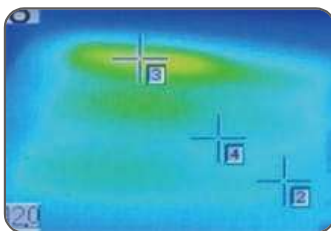


INSULATORY PROPERTY

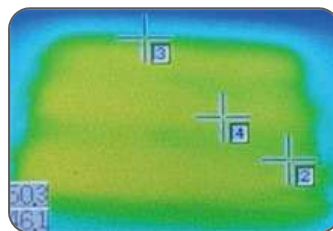
≥10 kV/ mm AC power source

APPLICATION EXAMPLE

- Can be molded into any 3D shape
- Low hardness and good material properties
- Conforms closely to the irregularities of the heating element in 3D shape, improve heat dissipation
- Can be Easily Peeled off Even After Long Use
- Low compression set
- Can be integrally molded



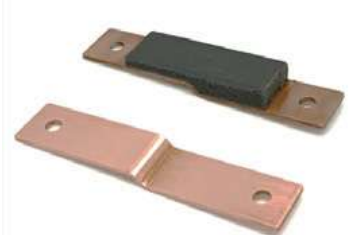
Thermal pad
After 30 min. heating



3D Thermal gap pad
After 30 min. heating



No material fracture
Maximum peel strength
→ 0.5N / 25 mm



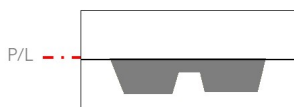
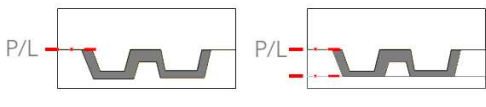
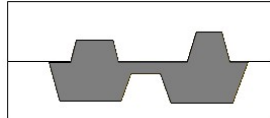
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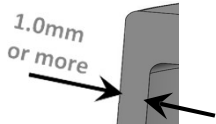
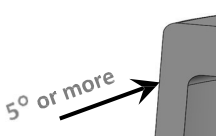
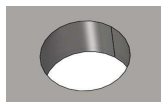
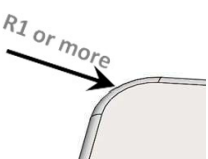
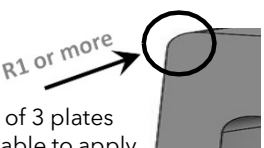
CHARACTERISTICS

	Item	Unit	3DPad-1.4 (FEATHER S3)	3DPad-2.2BB
Physical Property	Flame Resistance	UL94	V-0	V-0
	Thermal Conductivity	W/m•K	1.4	2.2
	Hardness / Type E		12	45
	Compression Set (24 h, r.t.)	%	<27	<16
	Specific Gravity	—	1.8	2.8
	Breakdown Voltage	AC kV/mm	≥10	≥10

PRODUCT DESIGN GUIDE

	Design 1	Design 2	Design 3
Mold Type	2 Plates 	2 Plates 3 Plates 	Upper and lower molds have digging. 
Feasibility	Very Feasible	Feasible	Not Feasible

DESIGN REQUIREMENTS

Size Min Φ10 ~ Max 250mm *Experience ※ to be discussed about Cavity layout and mold size	Thickness 1.0mm or more 	Draft 5° or more 	Hole  Not feasible x
Corner R R1 or more 	Fillet R R1 or more ※ Case of 3 plates type, unable to apply fillet R 	Under cut  Not feasible x	Other Burr min. 0.3mm Bubble, Appearance ※to be discussed about Quality requirement and standard condition

