

# 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



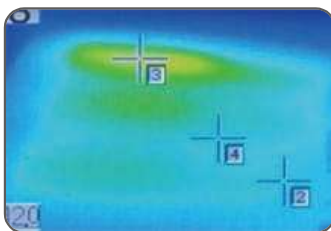
BMS Junction Box/  
Bus bar



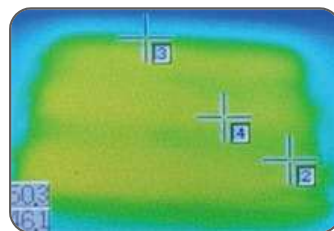
**INSULATORY PROPERTY**  
≥ 10 kV/ mm AC power source

### 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



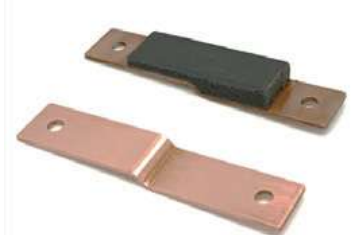
Thermal pad  
After 30 min. heating



3D Thermal gap pad  
After 30 min. heating



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



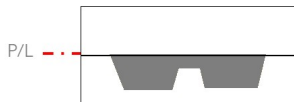
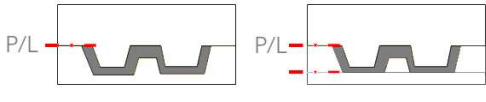
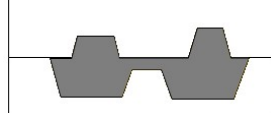
# 3D THERMAL GAP PAD

## THERMAL INTERFACE MATERIAL SOLUTION

### CHARACTERISTICS

	Item	Unit	3DPad-1.4 (FEATHERS3)	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

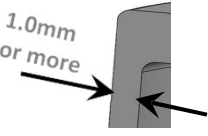
### DESIGN REQUIREMENTS

**Size**

Min  $\Phi 10$  ~  
Max 250mm \*Experience  
※ to be discussed about  
Cavity layout and mold size

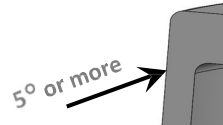
**Thickness**

1.0mm  
or more




**Draft**

5° or more



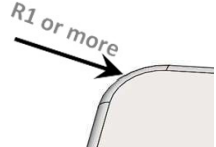
**Hole**



Not feasible ×

**Corner R**

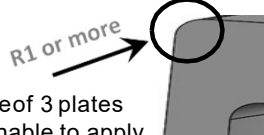
R1 or more



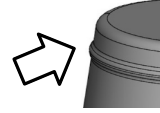
**Fillet R**

R1 or more

※ Case of 3 plates  
type, unable to apply  
fillet R



**Under cut**



Not feasible ×

**Other**

Burr min. 0.3mm  
Bubble,  
Appearance

※to be discussed about  
Quality  
requirement and standard  
condition

