NON-SILICONE THERMAL PAD

series: WG-50NS

- **Thermal conductivity up to 5.0w/mk.**
- **No silicone out gassing or silicone oil leakage.**
- **Good tensile strength and wear resistance.**
- **Available with adhesive one side.**
- **Optimum surface adaptation.**
- **Long term stability and performance.**
- **Typical applications include power battery pack, vehicle navigator, optical precision equipment, camera equipment, notebooks, mobile devices and automotive engine control.**

Properties	Unit	WG-50NS	Test Method
Colour	-	Grey	Visual
Thickness	mm	1.0 ~ 5.0	ASTM D374
Specific Gravity	g/cm³	2.78	ASTM D792
Thermal Conductivity	W/mk	5.0	ASTM D5470
Hardness	Shore 00	70	ASTM D2240
Elongation	%	30%	ASTM D412
Tensile Strength	Psi	30	ASTM D412
Dielectric Breakdown Voltage	KV/AC/mm	>5	ASTM D149
UL Flammability Rating	UL	94-V-0	UL 94
Volume Resistivity	Ωcm	1010	ASTM D257
Operating Temperature	°C	-40 ~ 120	-
Thermal Resistance	°C*in2/W	0.25	ASTM D5470
Compression Ratio (1mm, @40psi)	%	20	-
ROHS	-	PASS	IEC 62321
Halogen	-	PASS	EN 14582
REACH	-	PASS	EN 14372
Sheet size	mm	200 x 200 or 200 x 400	-

Thermal Resistance Test Results

Item	Hot (°C)	Cold (°C)	Thickness (mm)	Area (mm²)	Heat (W)	Thermal Resistance (°C*in2/W)	Pressure (kPa)
1	52.03	40.49	1.33	706.85	27.463	0.46655	71
2	51.50	40.92	1.16	706.85	28.428	0.41385	158
3	51.17	41.08	1.04	706.85	28.895	0.38750	227
4	50.90	41.30	0.95	706.85	29.377	0.36270	296
5	50.66	41.45	0.90	706.85	29.798	0.34255	364