Technical Data Sheet

ACS Material Thermal Conductive Pad

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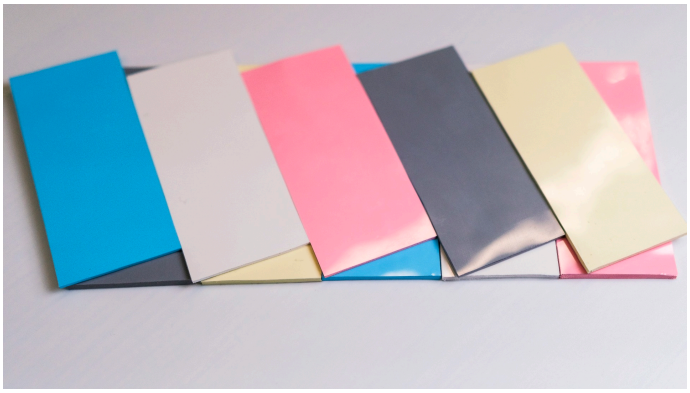
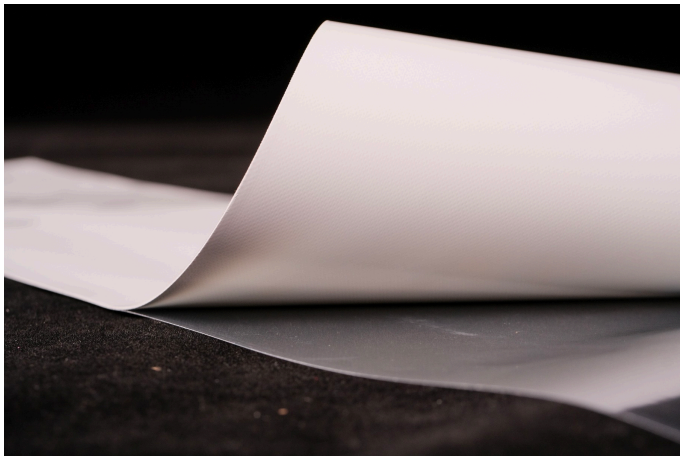
The soft thermal pad sealing material with a thermal conductivity range of 1.0~12.0W/m*K is suitable for applications with low assembly stress. This material has self-adhesiveness and weak elasticity, can be compounded with different reinforcing materials to achieve good body strength, and can be well attached to material interfaces, resulting in low thermal resistance and good shock absorption. At the same time, the thermal pad adopts an organic silicon formulation system, which is non-toxic, odorless, non-corrosive, and complies with RoHS directives and related environmental requirements.



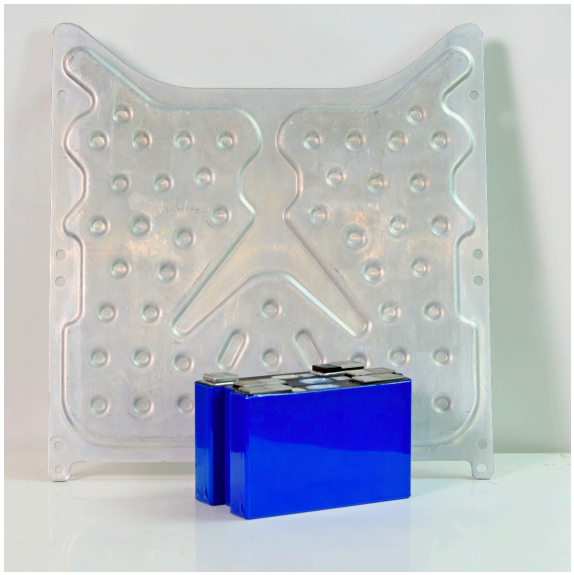


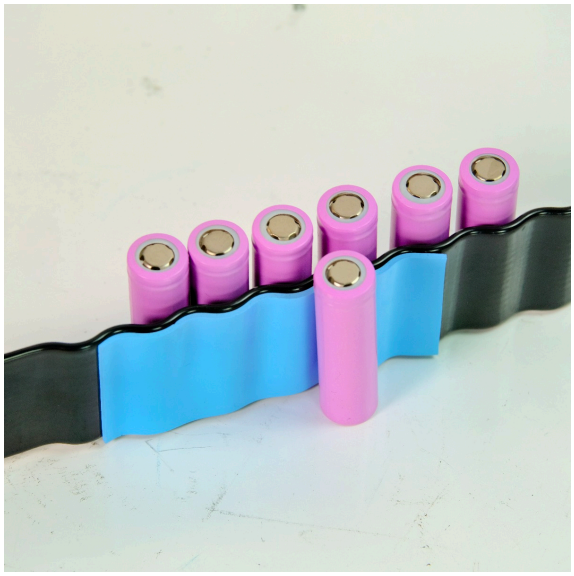
1. Features

- Good insulation and high/low temperature resistance.
- Flame retardant rating of UL94 V0
- Good workability and flexibility

2. Characterizations

Type	A	B	Test Standard
Color	Grey/Optional	Grey/Optional	Visual inspection
Thermal Conductive	2.0 W/m*K	8.0 W/m*K	ISO22007-2
Size	50x50x1 mm	200x400x2 mm	-
Thickness	0.4~10 mm	0.4~10 mm	ASTM D374
Density	2.1 g/cc	3.4 g/cc	ASTM D792
Hardness	5~80 Shore00	20~80 Shore00	ASTM D2240
Flame Retardant Rating	V0	V0	UL94
Tensile Strength	0.1 MPa	0.1 MPa	ASTM D412
Elongation at Break	20%	30%	ASTM D412
Breakdown Voltage	>10 kV/mm	>6 kV/mm	ASTM D149
Volume Resistivity	$>10^{12}$ Ohm*cm	$>10^{11}$ Ohm*cm	ASTM D257
D4~D10 Content	<100 ppm	<100 ppm	GC
Recommended using temperature range	-40 ~ +150 ℃	-40 ~ +150 ℃	-





3. Application Fields

Square battery/straight cold plate

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