

New

From material to final products.

Thermal insulation boards, *Thermolec*

[Product]

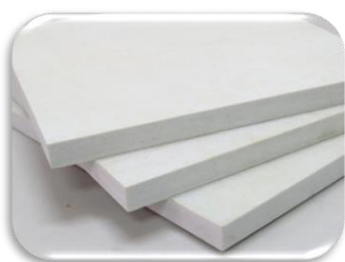
ELEC Thermolec is an excellent high-temperature polymer composite insulation panels, which brings together the advantages of thermal insulation panels on the market, in the heat of the barrier, control and performance of the mechanical strength of the temperature.

- Low thermal conductivity, effectively blocking heat conduction
- Heat compressive strength, long-term use at <200~500°C environment
- High resistance to wear and tear and fouling, can withstand operation in harsh environments
- Asbestos free. RoHS Compliance
- Diverse selection of thickness and superior flatness

[Applications]

- Isolated heat transfer equipment
- Machine and die thermal / shock
- Reduce heat loss
- Assist device temperature precise control

Testing items	Standards	Thermolec 500	Thermolec 300	Thermolec 200
Heat resistance temp	—	<500 °C	<300 °C	<200 °C
Density g/cm ³	JIS K 6911	1.75±0.1	2.0±0.1	1.5±0.1
Hardness (BARCOL)	ASTM D2583	≥75	≥85	≥55
Thermal conductivity W/(m · K)	ISO 22007-2	0.4±0.1	0.8±0.1	0.3±0.1
Thermal expansion ppm/°C	IPC-TM-650	--	30~50	80~100
Water absorption %	JIS K 6911	--	≤0.25	≤0.15
Impact strength KJ/m ²	JIS K 6911	≥2.4	≥50	≥50
Bending strength psi	JIS K 6911	≥4200	≥37000	≥30000
Compressive strength (Horizontal) 25°C psi	JIS K 6911	≥15600	≥50000	≥38000
Compressive strength (Horizontal) 200°C psi	JIS K 6911	--	≥40000	≥25000
Compressive strength (Horizontal) 288°C psi	JIS K 6911	--	≥30000	--
Compressive strength (Vertical) 25°C psi	JIS K 6911	--	≥42000	≥20000
Thickness mm	--	5~75	3~25	≥11
Thickness tolerance mm	--	≤±0.1	≤±0.1	3~25
Panel size M	--	0.9*1.2	1 * 1.2	≤±0.1
Note	--	OEM	--	1 * 1.2



ELEC
 Insulation Innovation
 SINCE 1983

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