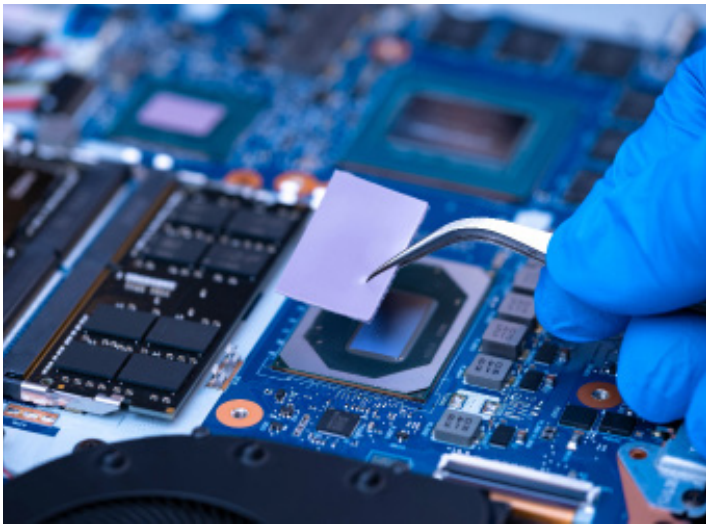
PC0 8.0 - PHASE CHANGE MATERIAL

Data Sheet DS_85 **1/1**



DESCRIPTION

Phase change materials (PCMs) have several advantages, including high energy storage density, low volume change during phase transition, and the ability to maintain a constant temperature during thermal energy storage and release. They can also reduce energy consumption and costs in buildings and industrial applications, and can be integrated into existing systems with minimal modifications.

Additionally, PCMs are environmentally friendly and have a long lifespan. They offer a versatile solution for thermal management in various fields and can improve the efficiency and sustainability of energy systems.

RoHS 3 / REACH
Last updated compliance directive

PART NUMBER:

Type	Sides	Resin	Conductivity	Shore	Thiknes
XXX	X	X	XX	XXX	XXXX
			30		
			Thermal conductivity equal to 3 W/mK		

TYPICAL APPLICATIONS:

- High frequency micropocessor
- Portable or desktop computer
- Computer server
- Storage
- Integrated chip
- LED lighting products.

Properties	UNITS	PC00P800055250	TEST METHOD
Color	-	Gray	Visual
Thickness	mm	0.10/5.0	ASTM D751
Thickness Tolerance	mm	± 0.30	ASTM D751
Density	g/cc	2.8	ASTM D297
Temperature range	◦C	-20 / 120	-
Phase Change Softening Temperature	◦C	45 / 55	-
Volume Resistivity	Ohm/cm	$2.0x10^{13}$	ASTM D257
Thermal Conductivity	W/mK	8.0 ± 0.3	ASTM D5470
Dielectric Constant	1M HZ	3.1	ASTM D150
Thermal Impedance @50psi	$◦C\text{-}in^2/W$	<0.007	ASTMD5470
RoHS		PASS	IEC 62321
Halogen		PASS	EN14582
Reach		PASS	EN14372

STORAGE CONDITIONS

Store in a ventilated, cool and dry place, do no touch open flames. This product is nontoxic and is stored and transported as non-dangerous goods.

Storage conditions: temperature 15◦C<T<30◦C; relative humidity RH<70%

Gabriel Benmayor S.A Bach, 2-B Pol. Ind. Foinvasa 08110 Montcada i Reixac, Barcelona info@aismalibar.com www.benmayor.com www.aismalibar.com T +34935724161 / F +34935724165