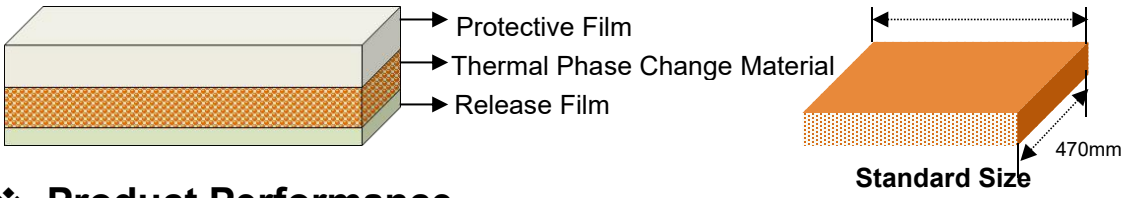
Thermal Conductive Phase Change Material SY-PC790

Technical Date Sheet Version Number: A-c

❖ Product Introduction

PC790 is a special interface filling material with high thermal conductivity and phase change performance which is made of paraffin and thermal conductive filler by special formula and process. It is solid below the phase transition temperature, which is easy to assemble and clean. When the phase transition temperature is reached, the material becomes soft, has a very good wetting effect, and improves the heat transfer capability of the heat generating portion and the heat radiating portion.

❖ Product Structure



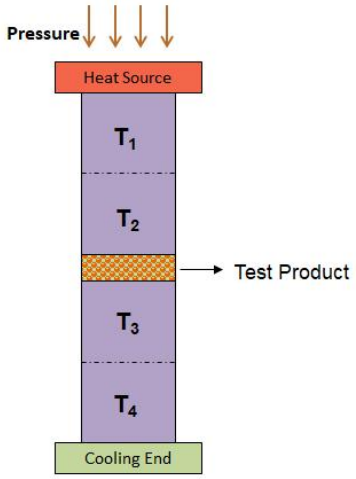
❖ Product Performance

- Good thermal conductivity and low thermal resistance;
- Reasonable phase transition temperature;
- Excellent initial tack, excellent operability;
- Excellent reliability.

❖ Features

PROPERTIES	SPECIFICATIONS	TEST STANDARD
Color	Gray	Visual Inspection
Thickness (mm)	0.10~0.30	ASTM D374
Density (g/cm^3)	2.70	ASTM D792
Volume Resistivity (Ω·cm)	1.0×10^{12}	ASTM D257
Thermal Resistance@40psi ,80°C (°C·cm^2/W)	0.045	ASTM D5470
Thermal Conductivity W/(m·k)	8.0	ISO 22007-2
Flame Rating (@0.5mm Aluminium Sheet)	V-0	UL-94
Phase Transition Temperature (°C)	45	ASTM D3418
Service Temperature (°C)	-40~125	Saintyoo TM

❒ Thermal Resistance Test Method



❖ Product Application

The product is widely used in hand-held consumer electronics, portable and desktop computers, electronic communication equipment, servers, network terminals, security equipment, optical communications-equipment, LED lighting equipment, automotive batteries and charging equipment and other electronic products between heating devices and heat radiation aluminum sheet or shell filling and heat conduction etc.

❖ Shelf Life and Storage Condition

- Shelf Life: 12 months
- Storage Condition: 0℃~25℃/0~65%RH in packing case.

Special Declaration: We suggest user do adaptability test before the formal use of this product. Due to the diversity of practical application, our company do not guarantee that the problem appear in a specific condition, thus our company will not be responsible for any direct, indirect or accidental damage. You can contact my company's after-sales service when problems encountered in the use, we will try to help you.