

SMARTGLUE SHT7 HT

Thermally Conductive Glue

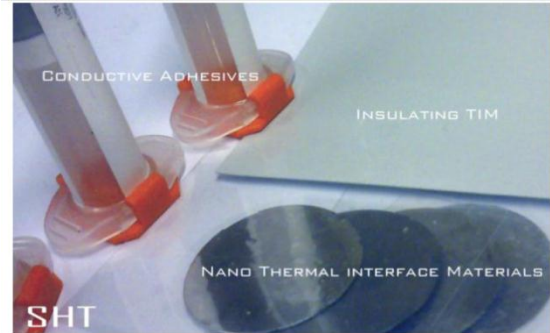
DESCRIPTION

SMARTGLUE are top of the line performing adhesives granting desirable electrical and mechanical benefits. The SMARTGLUE adhesives are characterized by low viscosity and electric resistance making them easy to handle. In addition SMARTGLUE offers excellent thermal conductivity that can help improve thermal performance of electronic systems.

SHT7 HT's favorable properties are induced using a flexible agent that modifies the formulation of the traditional brittle and hard ECA system and achieves a flexible adhesive. Also the flexible filler help minimize the malign influence to the adhesive and ensures a high reliability system during thermal cycling.

RECOMMENDED HANDLING

SHT recommends SHT7 HT to be cured at 150°C for 1h. Post curing is suggested for optimal performance. The data given below is typical performance of SHT7 HT.



FEATURES AND BENEFITS

- Efficient thermal conductivity
- Flexible Features
- Low viscosity
- Easy to use
- High reliability

TYPICAL APPLICATION

- Die attach
- Surface mount components
- Smart cards

TYPICAL PROPERTIES OF SHT7 HT			
PROPERTY	SHT7 HT-6	SHT7 HT-8	TEST METHOD
Color	Metallic gray	Metallic gray	Visual
Matrix	SHT7	SHT7	
Filler	Ag and Graphene	Ag and Graphene	
Viscosity (@30°C, 7.68s ⁻¹) (Pa.s)	12	21	10 rpm, 25°C, Brookfield
Curing Temperature (°C)/(°F)	150	150	DSC
Curing Degree (1h @150°C)	>96~98%	>96~98%	DSC
Glass Transition Temperature T _g (°C)/(°F)	160~200	160~200	DMA
Resistivity (Ohm cm)	4.68e-5	4.68e-5	Four-probe method
Thermal Conductivity (W/mK)	6	8	Xenon Flash

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