

# SMARTGLUE SHT6-S

## Thermally Conductive Glue

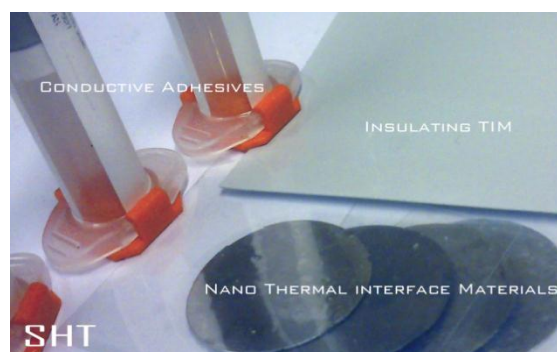
### DESCRIPTION

SMARTGLUE is 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.

SHT6-S favorable properties are induced by using a flexibilizing agent that modifies the formulation of the traditional brittle and hard ECA system and achieve flexible adhesives. 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 SHT6-S to be cured at 150°C for 1h. Post curing is suggested for optimal performance. The data given below is typical performance of SHT6-S.



### FEATURES AND BENEFITS

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

### TYPICAL APPLICATIONS

- Die attach
- Surface mount components
- Smart cards

### TYPICAL PROPERTIES OF SHT6-S

PROPERTY	SHT6B	SHT6AGG	TEST METHOD
Color	Metallic gray	Metallic gray	Visual
Matrix	SHT6	SHT6	-
Filler	Ag	Ag and graphene	-
Viscosity (@ 30°C, 7.68s <sup>-1</sup> )	21-33(Pa s)	21-33 (Pa s)	10rpm, 25°C, Brookfield
Curing temperature (°C)/(°F)	150	150	DSC
Curing degree (1h @150°C)	>96-98%	>96-98%	DSC
Glass transition temperature, T <sub>g</sub> (°C)/(°F)	160-200	160-200	DMA
Storage Modolous (@50/200°C) (GPa)	6.25/1.22	6.95/1.48	DMA
Thermal stability (°C)/(°F)	>350	>350	TGA
Resistivity (Ohm cm)	5.25e-5	4.68e-5	Four-probe method
Thermal Conductivity (W/mK)	3-5	6-8	Xenon Flash

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