



RS-150072 Thermal Conductive Adhesive

Description:

This product is a one-part neutral cure silicone thermal conductive material. It is designed especially for the use in the manufacture of electrical and electronic system assemblies. It cures to a rubbery solid when exposed to moisture in the air, which can effectively realize thermally conductive sealing function.

Characteristic

- Thixotropic material easy to use
- Excellent unprimed adhesion to many substrates
- UL94 V-0 flame classification

Typical Applications

- EV and battery application
- Automotive electronics
- Telecom base stations

Typical Properties

Properties	Typical value	Test method
Before cure		
Color	White	Visual
Extrusion rate (g/min)	180	0.3MPa
Cured profile		
Tack free time (min, 25°C 50%RH)	15	Finger touch
Cure time (h, 25°C 50%RH)	72	5mm
Cured properties (7 days, 25°C 50%RH)		
Density (g/cm ³)	2.45	ASTM D792
Durometer (Shore A)	60	ASTM D2240
Tensile strength (MPa)	1.5	ASTM D412
Elongation (%)	150	ASTM D638
Rectangular tear (N/mm)	3	GB/T 528
Lap shear (MPa, Al/Al)	1.2	GB/T 7124



Properties	Typical value	Test method
Thermal Conductivity (W/m*K)	1.5	ASTM D5470
Flame Classification	V-0	UL-94
Dielectric Strength (kV/mm)	22	ASTM D149
Volume Resistivity ($\Omega\cdot\text{cm}$)	$1.4\cdot 10^{14}$	ASTM D257
Dielectric constant	2.7	GB/T 1693
Dielectric loss	0.0017	GB/T 1693
Operating Temperature ($^{\circ}\text{C}$)	-40~200	/

Application:

This product is easy to solidify when exposed to air. Please keep it sealed during use. If there is unused material, you can first remove the solidified glue before use.

Storage:

- Shelf life: 6 months
- Temperature: $10^{\circ}\text{C}\sim 30^{\circ}\text{C}$
- Relative humidity: $\text{RH}<70\%$

Package:

- 310mL cartridge
- 25 pc/box

The technical data in this data sheet only represent typical values, not the test values of each batch of products. If you need the technical specification of the final product, please contact the relevant technical personnel.

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