



SR-300021 Thermal Conductive Adhesive

Description:

This product is a two-component epoxy structure adhesive, which can be cured at room temperature or under heating conditions and no volatiles are produced during curing. After curing, the colloid is odorless, tasteless and non-toxic. The product has good mechanical properties, good electrical insulation properties and it can withstand extremely strong impact, vibration and temperature changes. It has good adhesion to various kinds of substrates, which can meet customers' extensive needs.

Characteristic

- Good process ability and adhesion property
- Good insulation property with good reliability
- Good mechanical strength

Typical Applications

- Power battery application
- Automotive electronics
- LED display application
- Microprocessors and graphic chips



Typical Properties

Properties	Typical value		Test method
Before mix	Part A	Part B	
Color	Orange	Yellow	Visual
Viscosity* (mPa*s)	460,000	1,002,000	ASTM D2196
Mix Viscosity* (mPa*s)	1,410,000		ASTM D2196
Density (g/cc)	2.58	2.60	ASTM D792
	2.59		
Mix ratio	1:1		/
Cured properties			
Color	Orange		Visual
Durometer (Shore D)	70		ASTM D2240
Thermal Conductivity (W/m*K)	3.0		ASTM D5470



Properties	Typical value	Test method
Dielectric Strength (KV/mm)	>8	ASTM D149
Volume Resistivity ($\Omega \cdot \text{cm}$)	>10 ¹²	ASTM D257
Tack Free Time@25°C (min)	70	GT/13477.5
Cure Time@25°C (day)	7	ASTM D2240
Cure Time@80°C (h)	3	ASTM D2240
Flame Classification	V-0	UL-94
Lap Shear (MPa, Treated Aluminum)	4	GB/T 7124
Pull Strength (MPa)	1.2	GB/T 11211
Tensile Strength (MPa)	8	ASTM D412
Elongation (%)	5	ASTM D638
Operating Temperature (°C)	-40~85	/

*Brookfield DV2T SC4-14, 5rpm

Application:

Part A and Part B should be thoroughly mixed 1:1 by volume and cured at room temperature. Static mixer is recommended for manual and automated mixing.

Storage:

- Shelf life: 6 months
- Temperature: 10°C~30°C
- Relative humidity: RH<70%

Package:

- 400mL dual cartridge
- 5 gallon pail
- 55 gallon drum

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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