



PU-130013 Thermal Conductive Adhesive

Description:

This product is a two-component thermal conductive paste material, which can be cured at room temperature. After curing, the product is an elastomer with certain thermal conductivity. It is easy to use and can effectively bond all kinds of substrates (PET, aluminum-plastic film, PU, aluminum, etc.). The operation temperature is between -40~85°C with good weather resistance and aging resistance performance, which can meet most customer's needs.

Characteristic

- Good process ability and can effectively fill the gap
- Good insulation property with good reliability
- UL94 V-0 flame classification

Typical Applications

- Power battery application
- Automotive electronics
- Telecom base stations
- Microprocessors and graphic chips



Typical Properties

Properties	Typical value		Test method
Before mix	Part A	Part B	
Color	Orange	White	Visual
Viscosity (mPa*s)	50,000	160,000	ASTM D2196
Mix Viscosity (mPa*s)	100,000		ASTM D2196
Mix ratio	1:1		/
Cured properties			
Color	Orange		Visual
Density (g/cc)	1.9		ASTM D792
Thermal Conductivity (W/m*K)	1.3		ASTM D5470
Durometer (Shore D)	50		ASTM D2240
Dielectric Strength (KV/mm)	>10		ASTM D149
Volume Resistivity (Ω*cm)	>10 ¹²		ASTM D257



Properties	Typical value	Test method
Tack Free Time@25°C (min)	35	GB/T 13477.5
Cure Time@25°C (day)	7	ASTM D2240
Flame Classification	V-0	UL94
Lap Shear (MPa, Insulating Coating, 24h)	2	GB/T 7124
Pull Strength (MPa, Insulating Coating, 24h)	2	GB/T 6329
Lap Shear (MPa, Insulating Coating)	4	GB/T 7124
Pull Strength (MPa, Insulating Coating)	4	GB/T 6329
Tensile Strength (MPa)	4	GB/T 528
Elongation (%)	120	GB/T 528
E-Modulus (MPa)	50	GB/T 7124

Application:

Part A and Part B should be thoroughly mixed 1:1 either by volume or weight 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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