



HT 6942 TDS

Product feature

HT6942 is a halogen-free flame retardant, solvent-free high performance two-component polyurethane potting adhesive, which has good fluidity, heat dissipation, insulation, low shrinkage and low stress. Excellent resistance to water, oil, acid and alkali corrosion; Anti-shock, anti-aging, adjustable curing speed, in line with EU RoHs environmental protection requirements. Equivalent replacement for Huntsman U6942.

Scope of use

It is widely used for protection, sealing, filling and insulation of wire harness, terminal, electronics, electrical appliances, power supply, transformer, charging pile and other products. Especially suitable for potting electronic components requiring good thermal cycling performance.

Pre-cure characteristic

Item	Value
Appearance A component (visual)	Liquid light yellow
Appearance B component (visual)	Liquid transparent
Viscosity of A component (ASTM D2196 @25°C)mPa.s	6500±1000
Viscosity of B component (ASTM D2196 @25°C)mPa.s	200±50
Mixing ratio (by weight)	6: 1
Operable time (min,25°C)	30±10
Viscosity after mixing (mPa.s)	2500±500

Post-cure characteristic

Item	Value
Hardness (Shore D)	40±5
Shear strength (mPa)	≥3
Heat conductivity coefficient (ASTM D5470, W/m.K)	≥0.6
Operating temperature (°C)	-50 ~ 130
Dielectric strength (ASTM D149, KV/mm)	≥18.5
Volume resistivity (GB/T1692-92, Ω·cm)	大于 3.2×10^{13}
Flame retardant rating UL-94	V-0

The above test data were obtained at 25 ° C ± 2 ° C, 55% humidity, and cured for 7 days.

Recommend process procedure

- 1、Components A and B should be used up as soon as possible after opening。
- 2、Clean the surface to be bonded so that it is clean and dry。
- 3、Component A and B are mixed manually or mechanically according to the ratio of 6:1 (weight ratio). In order to ensure that the material is free of bubbles, it is recommended to use mechanical vacuum static mixing. Glue the mixture onto the device position. It can be cured at room temperature or by heating。

Precautions

- 1、In use, special equipment should be used, mixed evenly, and the components should be dry without moisture。
- 2、A small number of people may experience skin allergies and mild itching and pain after long-term contact with the glue. It is recommended to wear protective gloves when using it. Please wash it with soap if it sticks to the skin. If it contacts the skin or eyes and causes discomfort, please rinse with plenty of water first and then seek medical attention immediately。
- 3、The mixture must be used up within the operable time, otherwise it will solidify and cannot be used anymore。
- 4、Please use up the unused glue as soon as possible after opening the package. Seal the unused glue immediately to prevent moisture absorption。
- 5、After being stored for a period of time, the glue will be stratified. Please stir it evenly before use, which will not affect the performance。

Store and transportation

- 1、Store in a dry and sealed place at 15-25°C away from light. Storage period: 6 months。
- 2、This type of product is non-dangerous and is stored and transported as general chemicals。

Package

Main agent: 30KG/barrel

Hardener: 5KG/barrel

Data range

The data in this article are typical values and/or ranges. These values are obtained based on actual test data and periodic verification。

Explanation

This data is measured by our technicians in the laboratory and has a certain reference value for customers. However, since each user's usage methods and conditions are different, it is recommended that users find the best process and method according to their own situation. Our company promises that the sample is completely consistent with the product. Since the operation process does not follow the TDS and MSDS standards, any problems that arise will be the responsibility of the user. If you have any questions, please call our technical service department。