



# PU 2553 TDS

## Product features

PU2553 is a halogen-free flame retardant, solvent-free high performance two-component polyurethane potting adhesive with 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.

## Typical 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 properties

Item	Value
Appearance A component (visual)	Liquid black/white
Appearance B component (visual)	Liquid brown
Viscosity of A component (ASTM D2196 @25°C)mPa.s	9000±2000
Viscosity of B component (ASTM D2196 @25°C)mPa.s	200±50
Mixing ratio (by weight)	100: 23
Operational time (min,25°C)	30±10
Viscosity after mixing (mPa.s)	3000±50

## Post-cure properties

Item	Value
Hardness (Shore D)	45±5
Shear strength (mPa)	≥3
Thermal conductivity (ASTM D5470, W/m.K)	≥0.6
Operating temperature (°C)	-50 ~ 125
Dielectric strength (ASTM D149, KV/mm)	≥18.5
Volume resistivity (GB/T1692-92, Ω·cm)	1.25*10 <sup>14</sup>
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.

## Recommended process

- 1、Components A and B should be used up as soon as possible after opening。
- 2、Clean the surface to be bonded to ensure it is clean and dry。
- 3、When used, A and B are mixed manually or mechanically according to the ratio of 100:23 (weight ratio). In order to ensure that the material is free of bubbles, it is recommended to use mechanical vacuum static mixing. Apply the mixture onto the device position. It can be cured at room temperature or by heating。

## Notice

- 1、Use special equipment to mixed evenly, and the components should be dry without moisture。
- 2、Long contact with the glue will cause skin allergy and mild itching and pain to some people. It is recommended to wear protective gloves when using the glue. Please clean it with soap after sticking it to the skin。
- 3、The mixture must be used up within the operational time, otherwise it will cure and cannot be used again。
- 4、After opening the package, please use it as soon as possible. Seal and store the unused glue immediately to prevent moisture absorption。
- 5、After storage for a period of time, the glue will be stratified, please stir evenly before use, without affecting the performance。

## Storage and transportation

- 1、Store in a dry sealed place at 15-25°C away from light for 6 months。
- 2、The products are non-dangerous goods and are stored and transported as general chemicals

## Package

Main ingredient : 20KG/barrel

Hardener: 4.6KG/barrel

## Data range

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

## Notice

This data is measured by our technical staff in the laboratory, and has certain reference value for customers' use, but it is due to the influence of each user

with different methods and conditions, it is recommended that users find the best process and method according to their own situation. We promise samples and products completely consistent, the user is fully responsible for any problems if the operation process is not in accordance with the TDS, MSDS standard. If you have any questions, please call our technical service department。