GLUDITEC
Glue & Dispensing Technology

Technical Data Sheet

GLT PP-8601

Two-part polyurethane potting compound

GLT PP-8601 is a flexible polyurethane encapsulant is formulated to have low viscosity and excellent wetting properties allowing complete impregnation of either small slightly wound coils or large castings.

FEATURE

- Two-component potting compound
- Low viscosity, flows well and adheres to many substrates
- Good resistance to water, transformer oil, gasoline and other chemicals
- Well suited for the insulation of low voltage components as transformers, coils, electronics switches, capacitors and others.

TYPICAL UNCURED PROPERTIES

Properties	PP-8601-A	PP-8601-B
Appearance	Viscous Liquid	Viscous Liquid
Color	Light Yellow	Light Yellow
Viscosity (cps)	80 ± 20	320 ± 100
Mixing Viscosity (cps)	190 ± 50	
Density (g/cm^3)	1.08 ± 0.05	0.95 ± 0.05

TYPICAL CURING PROPERTIES

Properties	PP-8601
Mix Ratio (A:B) by Weight	1:1
Glass transition temperature (°C)	7 (TMA)
Cured Time, 25°C, mins	180 - 240
Cured Time, 60°C, min	60

DIRECTION OF USE

1. This product should be applied to a clean surface which is free of dirt, grease or mold release. In many cases, a simple solvent wipe is sufficient.

2. Weight the correct propertions to within 2% accuracy and mix thoroughly together, scraping both the bottom and the sides of mixing container, until a homogeneous mixture is obtained. If there are bubble problems, vacuum condition is recommended.

3. If part B is precipitation, stir well before use.

4. Cure time on the really part will depend upon factors such as part geometry, materials to be bonded, bondline thickness and efficiency of the oven. Cure schedule should be confirmed with actual production parts and equipment.

5. For large scale application, this resin is suggested to be precured at lower temperature, then fully cured at high temperature to avoid extremely heat release.

6. Do not use any parts of two to blend with other kinds of glue.

7. When not using the mixing product immediately, please replace the lid to prevent the product from the air and moisture.

TYPICAL CURED PROPERTIES

Glass Transition Temp., (DSC), °C		7
Linear expansion coefficient, m/mK		5.5 - 6.0*10^{-6}
Durometer Hardness, Shore A		45 ± 5
Water Absorption Ratio (30 days), %		0.5
Break down Voltage, kV/mm		> 18
Volume Resistivity, ohm-cm		1.0*10^{13}
Dielectric Constant	at 50Hz, 23°C	5.6 IEC 60250
	at 1 kHz, 23°C	4.6 VDE 0303
	at 1 mHz, 23°C	3.7
Temperature Range, °C		-40 ~ 100

STORAGE AND SHELF LIFE

The container should be stored in cool and dark place. The resin and hardener will become yellow under the sunlight. Replace the lid immediately after use. Keep without any possibility of wet when not using. Shelf life of this product is six months when stored below 14~34°C in original, unopened containers.