Clear One Component Solvent Based Bonding Agent For CPU/MPU/TPU

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Thinkbond
- Model Number: ThinkBond 40T
- Minimum Order Quantity: None
- Price: 0-99usd
- Packaging Details: 20L/200L
- Delivery Time: 15-20 working days
- Payment Terms: T/T
- Supply Ability: 20T/month

Product Specification

- Odor: Solvent
- Form: Liquid
- Type: Adhesive
- Color: Yellow
- Shelf Life: 24 Months
- Application: CPU To Metal Bonding
- Highlight: **Clear Solvent Based Bonding Agent**, **TPU Clear Bonding Agent**, **Solvent Based Clear Bonding Agent**

Clear One-Component Solvent-Based Bonding Agent for CPU/MPU/TPU

Product Description:

Thinkbond 940T is a Clear One-Component Solvent-Based Bonding Agent for CPU , MPU and TPU to hard substrates.

Hard substrates include: metal substrates (steel, iron, aluminum, etc.) and non-metal substrates (epoxy resin, glass-reinforced plastics, polyphenylene sulfide, polyetheretherketone, polyethersulfone, etc.).

Thinkbond 940T is a heavy metals free product.

BENEFITS:

Thinkbond 940T is a one coat bonding system for PU's and TPU'S to all metals during the curing process.

Thinkbond 940T will also bond polyurethane elastomers to polyamides and other engineering thermoplastics, such as Hytrel® , polyester, PES, PPS and PPO, at 80ºC or above.

Thinkbond 940T has excellent environmental resistance to hot and cold water, fluids.

TYPICAL PHYSICAL PROPERTIES:

Appearance	Yellow liquid
Non-volatile solids (1h @ 105°C)	21-25%
Specific gravity at 25°C	0,85-0.89 g/cm3
Viscosity Brookfield at 25°C	270 cps - #2 spindle @ 30 rpm
Viscosity Ford Cup # 4 at 25°C	70 s
Diluents	Isopropyl alcohol, ethanol, toluene
Bonding Temperature Range	70 to 205ºC (Casting bonding process) 150 to 230°C (TPU injection molding bonding process)
Shelf life	2 years (closed can below 25ºC)

CHEMICAL COMPOSITION:

Resins and catalysts stabilized in organic solvents.

METAL SURFACE PREPARATION:

Prepare the metal surface properly by removing completely oil, grease and dirt.

Blasting the surface with grit blasting steel so that the surface roughness is greater than 15 µm.

For aluminum surfaces we recommend the use of aluminum oxide as abrasive.

Clean again the substrate to remove dust from blasting residues.

If specified, the metal part can be phosphatized, galvanized, chromate conversion treated or KTL, before applying adhesive.

APPLYING Thinkbond:

Agitation: We recommend stir Thinkbond 940T before the application to avoid settle down.

Brushing: Application by brushing is normally undertaken without further dilution, but for coating large areas, dilution with MEK (or the diluent blend shown below) improves flow and speed of application.

Spraying: We recommend an HVLP gun using 1.5 Bar air-pressure and a nozzle size of 1 - 1.5mm. For this application we recommend diluting between 50 and 100% v/v.

Roller coating: Dilute to 35 - 45 seconds on a DIN 4 or Ford 4 cup at 25 C for most roller application processes. Dilution with a high boiling solvent like MPA may be necessary to achieve the best finish and to reduce the skinning of the bonding agent in the applicator.

Drying: Dry the film between 10 and 30 minutes at room temperature. If it is necessary to reduce drying time, we recommend to use forced air for 5 minutes at 100ºC maximum. Do not use in this stage temperatures above 100ºC to avoid adhesive pre-cure.

After this process, follow to cure.

Thickness of application layer: The film obtained by applying Thinkbond 940T is colorless. The layer thickness must be between 15 and 25 µm.

For severe environments or dynamic fatigue applications, use ≧25 microns. Under these conditions it is possible to achieve bonds with no edge-failure after 400 hour salt-spray tests

Parts with Thinkbond 940T already applied can be stored for 30 days prior to cure.

STORAGE:

Keep container tightly closed during storage and always keep away from heat sources. Store in anenvironment below 10ºC increases the shelf life of the adhesive.

It has nearly 5,000 square meters of cargo storage area.
Eight employees work full-time in warehousing.

Technical support

Making adjustment in the field

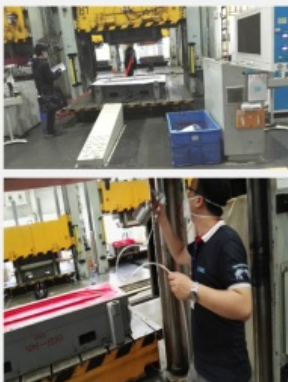**Testing in the field**

Shanghai Lorechem has a professional technical service team, whose members are specialized in polymer materials engineering. They have a wealth of field testing.

Shanghai LoreChem Co., Ltd. was established in 2008. It is a high-tech enterprise which is dedicated to serve releasing products which involve semi-permanent release agent, anti-sticking, surface lubrication and thermal reactive adhesive. Shanghai LoreChem has been improving product quality for 15 years. The releasing products are mainly applied in rubber, polyurethane and composite industry. The brand of Lubekote for release agent and Thinkbond for adhesive have been registered in China. Both of them are well known in the industry.

Shanghai LoreChem 's business is all over the domestic and foreign high-end production enterprises by providing professional technical solutions and services. The company's long-term goal is to become one of the best suppliers of release agent in Asia.

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