



## Technical Data Sheet

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# TERABOND-2010E

## Electrically Conductive Adhesive

- Terabond-2010E is thermosetting electrically conductive adhesive that can be cured quickly at low temperatures for shingled solar module & Low-temperature fast-curing adhesive
- Terabond-2010E has high adhesive strength after curing and has excellent performance in screen printing and dispensing processes.
- These materials are resistant to temperature cycle & thermal shock due to their low modulus and is suitable for requiring fast processing due to their high curing speed.
- This product has excellent reliability in various temperatures and humidity environments, thermal shock test etc.
- Terabond-2010E has higher electrical conductivity and heat resistance than acrylic type.

### Characteristics

- One-component curing system
- Snap curable
- Good dispensing & Screen printing performance
- High adhesive strength & Low modulus

### Applications

- Shingled solar module
- Electrically conductive adhesive requiring snap curing

### Production Properties

Physical Properties	TERABOND-2010A
Chemical Type	Thermosetting
Fillers	Silver
Color	White Gray
Material Properties	
Curing Condition	10~15 second @150°C
Viscosity(cps@16s <sup>-1</sup> )*	14,000~20,000
Thixotropic Index(1.6s <sup>-1</sup> /16s <sup>-1</sup> )	3.5~5.0
Volume Resistivity( $\Omega \cdot \text{cm}$ )**	< $4 \times 10^{-5}$
Storage Modulus(Gpa@25°C)	< 4.0
Die shear strength (Kg-f/2mmX2mm)	> 8.0

\*HVDV-IIT Spindle #14 at 25°C  
\*\*15min @ 150°C

### Application Process

Dispensing/Screen Printing	Yes
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### Material Properties

Working Life (at 25°C)	6 hrs
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Shelf Life	3 mths
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Storage Condition	Below -40°C
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### Notes

- The heat treatment profile is a guideline recommendation. The optimum heat treatment conditions should be set in consideration of the customer's equipment and the actual oven temperature
- Do not open the syringe or pot before adhesive reaches room temperature to prevent the moisture condensation
- Do not return the used product to the container. We cannot guarantee product property.
- This Paste are package in syringes or pot per customer specification.
- Clean up : Uncured paste may be cleaned from dispenser and surfaces with ETOH, acetone, MEK. Etc.

Always wash and dry thoroughly prior to re-use of the dispenser components.