



## Technical Data Sheet

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# TERABOND-0110L

## Electrically Conductive Adhesive

- Terabond-0110L is a solvent-free thermosetting electrically conductive adhesive that can be cured quickly at low temperatures for shingled solar module & Low-temperature fast-curing adhesive
- Terabond-0110L has high adhesive strength after curing and has excellent performance in screen printing 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-0110L is a low price product with less silver contents than Terabond-2010A

### Characteristics

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

### Applications

- Shingled solar module
- Electrically conductive adhesive requiring snap curing

### Production Properties

Physical Properties	TERABOND-0110L
Chemical Type	Thermosetting
Fillers	Silver
Color	White Gray
Material Properties	
Curing Condition	10~15 second @ 130°C~150°C
Viscosity(cps@16s <sup>-1</sup> )*	20,000~25,000
Thixotropic Index(2rpm/20rpm)	2.0~3.0
Volume Resistivity(Ω*cm)**	< 7.0 x 10 <sup>-4</sup>
Storage Modulus(Gpa@25°C)	< 2.0
Die shear strength (Kg-f/2mmX2mm @ 150°C X 35s)	> 12.0

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

### Application Process

Screen Printing	Yes
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### Material Properties

Working Life (at 25°C)	12 hrs
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Shelf Life	6 mths
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Storage Condition	Below -20°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.