



## Technical Data Sheet

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**TERAON**  
**Teraon Co., Ltd**

**[Address] 203-64, Jimun-ro, Wongok-myeon, Anseong-si,  
Gyeonggi-do, Korea**

**[Website] <http://teraon.co.kr/>**

# 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(Ω*cm)**                                | < 4 x 10 <sup>-5</sup> |
| 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 |
|----------------------------|-----|

### Material Properties

|                        |       |
|------------------------|-------|
| Working Life (at 25°C) | 6 hrs |
|------------------------|-------|

|            |        |
|------------|--------|
| Shelf Life | 3 mths |
|------------|--------|

|                   |             |
|-------------------|-------------|
| Storage Condition | Below -40°C |
|-------------------|-------------|



### 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.