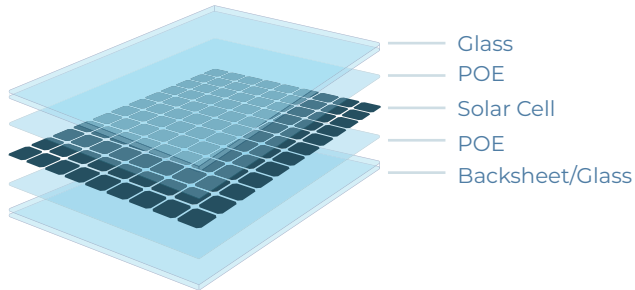


## POE Encapsulant Sheet

### T1200 Series



The T1200 series POE encapsulant is a ultra-fast cure type produced by Terasol Energy using state-of-the-art manufacturing and advanced technology. These encapsulants are known for their proven reliability, ensuring extended lifespan of solar photovoltaic systems in field environments. These encapsulants exhibit excellent technical properties, including resistance against PID (Potential Induced Degradation) and snail trail defects.

| Test Parameter         | Standard        | Unit    | Result                 |            |
|------------------------|-----------------|---------|------------------------|------------|
|                        |                 |         | POE - T12F             | POE - T12B |
| Thickness              | ASTM D6988      | Micron  | 400 - 800              |            |
| Width                  | Scale           | mm      | ≤ 1350                 |            |
| Shrinkage              | 150 °C @ 5 min. | %       | MD: ≤3 % ; TD: ≤ 1 %   |            |
| Tensile Strength       | ASTM D882       | MPa     | ≥ 10                   |            |
| Elongation at break    | ASTM D882       | %       | ≥ 600                  |            |
| Peel Strength          | ASTM D903       | N/cm    | ≥ 70                   |            |
| Shore Hardness         | ASTM D2240      | shore A | 70 - 80                |            |
| Optical Transmittance  | IEC 62788-1-4   | %       | ≥ 91                   |            |
| UV Cut-off Wave Length | IEC 62788-1-4   | nm      | -                      | 360        |
| Yellowness Index       | ASTM E 313      | -       | < 1                    |            |
| Gel Content            | ASTM D2765      | %       | ≥ 70                   |            |
| Volume Resistivity     | ASTM D 257      | ohm.cm  | ≥ 1 x 10 <sup>16</sup> |            |
| Water Absorption       | ISO 62          | %       | ≤ 0.2                  |            |

| Lamination Parameter      |            |
|---------------------------|------------|
| Evacuation Time (Minutes) | 3 to 6     |
| Lamination Time (Minutes) | 6 to 9     |
| Temperature (°C)          | 140 to 150 |

| Storage and Packing Details |  |
|-----------------------------|--|
| Storage Condition           | Store at temperature 25 to 30 degree & Humidity 50 to 60%          |
| Shelf Life                  | Recommended to use before 6 months from the date of manufacturing. |