

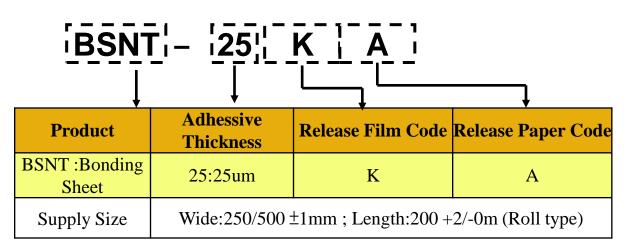
# ThinFlex-BSNT -25KA Bonding sheet

ThinFlex-BSNT It is an adhesive film formed by applying epoxy resin adhesive on the backing film. It is usually used in the FPC industry, Rigid-Flex Board, and also partially used in the bonding of reinforcement and heat-resistant materials.

# **1.Product Characteristics:**

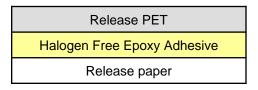
- \*Excellent heat resistance
- \* Excellent chemical resistance
- \* Excellent thermal, mechanical and electrical properties
- \* Products can meet the environmental requirements of RoHs/Reach....

# 2. Specifications:



\*Other thicknesses and dimensions are available on customers' demand.

### 3. Constructions:



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| 4. Product Property : |                                      |        |                             |                              |  |  |
|-----------------------|--------------------------------------|--------|-----------------------------|------------------------------|--|--|
|                       | Item                                 | Unit   | BSNT-25KA                   | Test Method                  |  |  |
|                       | Peel Strength                        |        |                             |                              |  |  |
|                       | Base film side                       | kgf/cm | ≧0.8                        | IPC-TM650 2.4.9              |  |  |
|                       | Copper side                          | kgf/cm | ≧0.8                        | IPC-TM650 2.4.9              |  |  |
|                       | Solder float                         | PASS   | 288°C10sec                  | IPC-TM650 2.4.13             |  |  |
|                       | Insulation Resistance                | Ω      | $\geq$ 1.0×10 <sup>13</sup> | IPC-TM650 2.5.17             |  |  |
|                       | Surface Resistance                   | Ω      | $\geq$ 1.0×10 <sup>13</sup> | IPC-TM650 2.5.17             |  |  |
|                       | Volume Resistance                    | Ω-cm   | $\geq$ 1.0×10 <sup>14</sup> | IPC-TM650 2.5.17             |  |  |
|                       | Dielectric Constant                  | -      | 3.1                         | <b>Resonance Method SPDR</b> |  |  |
|                       | <b>Dissipation Factor</b>            | -      | 0.044                       | <b>Resonance Method SPDR</b> |  |  |
|                       | <b>Resin Flow</b>                    | μm     | ≦200                        | ThinFlex                     |  |  |
|                       | Glass transfer<br>temperature, Tg    | °C     | 65                          | DMA                          |  |  |
|                       | Coefficient of thermal expansion,CTE | ppm/K  | 102                         | ТМА                          |  |  |
|                       | Voltage endurance                    | KV/mm  | 250                         | ASTM-D149                    |  |  |
|                       | Tensile elastic<br>modulus           | Gpa    | 0.6                         | IPC-TM-650 2.4.19            |  |  |
|                       | Tensile strength                     | Мра    | 23                          | IPC-TM-650 2.4.19            |  |  |
|                       | Elongation                           | %      | 164                         | IPC-TM-650 2.4.19            |  |  |
|                       | Thickness Tolerance                  | %      | ±10%                        | Micrometer                   |  |  |
|                       | UL Flame grade                       | -      | 94VTM-0 *                   | UL                           |  |  |
|                       |                                      |        |                             |                              |  |  |

\*UL Composite composite test  $\rightarrow$  For intermediate layer BSNT  $\rightarrow$  Use on both sides LCAS (PI 25um+Ad 10um) The above data are the test statistical results, not the guaranteed values  $\sim$ 

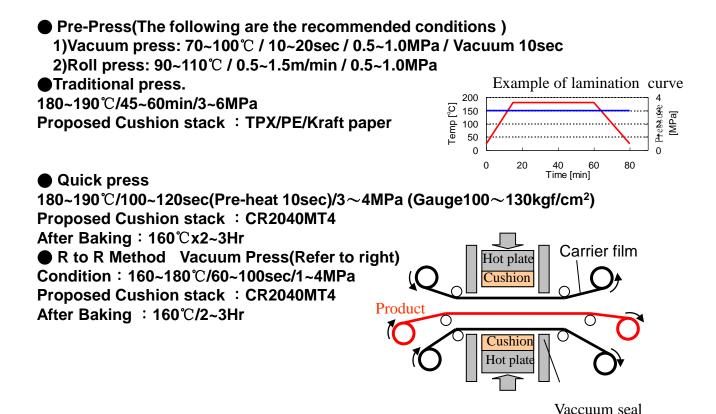
Technical Data Sheet: 2023/01

# **5.Lamination and Process Conditions**

ThinFlex Bonding sheet are typically used in the following ranges:

Method of use :

First of all, tear off the paper, attached to the substrate , finally, tear off from the PET.





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## 6. Storage:

ThinFlex-BSNT will meet its shelf-life for at least 2 months from product date and stored in the original packaging in a dry place at temperatures below  $5^{\circ}C$ 

## 7. Back to the temperature parameter :

Time : At least 2 hours Temperature :  $20 \pm 10^{\circ}$ C Humidity :  $50 \pm 20\%$ 

Note: The information and data contained in this technical literature is believed to be accurate and is offered in good faith for the benefit of the user. The user should make his own tests to verify the suitability of this product for any application before its use. All data are typical values only and subject to change without notice.

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