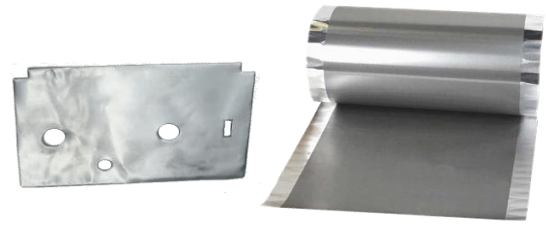


# LST-GBA-600-AL

## Graphite Bond Aluminum

### DESCRIPTION

LST-GBA-600-AL is a Graphite Bond with Aluminum material. It has high thermal conductivity and excellent flexibility. It is a product made from carbon fiber and carbon nano-powder synthesized by a special process bonded with Aluminum. It can be die-cut into any shapes and sizes to provide excellent thermal heat management solution for limited space application.



Graphite Bond Aluminum Material

#### Features

- Thermal Conductivity 500 W/m-K
- Good EMI Shielding and Absorbing
- Reliable Temperature -40°C to 400°C
- RoHS Compliant and UL94V0 Rated
- Offered Customized Combination Thickness

#### Benefits

- Die-cut into customizable shapes
- Adhesive-backed for peel-and-stick process
- Can laminated with plastic, metal or foam
- Reduce skin temperature and eliminate “hot spot”
- Can replace grease, eliminate fan and heat pipe.

### LST-GBA-600-AL Characteristics

| Typical Properties  | GNM        | Aluminum |
|---|------------|----------|
| Color   | Dark Gray  | Nature   |
| Thickness (mm)  | 0.600      | 0.018    |
| Operating Temperature (°C)                                  | -40 ~ +400 |          |
| Thermal Conductivity (X-Y Direction), (W/m-K)               | 500        | 250      |
| Thermal Conductivity (Z Direction), (W/m-K)                 | 15         | -        |
| Typical Electrical Resistivity (Thickness) ( $\mu\Omega$ m) | > 16000    | -        |
| Typical Electrical Resistivity (In-Plane) ( $\mu\Omega$ m)  | 10         | -        |
| RoHS Compliant  | Yes        |          |

### Part-Order Ordering System : LST-GBA-600-P10 G A10-AL-A10

- ① P10 : P = PET (Not To Remove)  
10 = Thk 10 or 30u
- ② G : Graphite Material Composite Position
- ③ A10 : A = Adhesive  
10 = Thk 10 or 30u
- AL : Aluminum Foil Bond
- ④ A10 : A = Adhesive  
10 = Thk 10 or 30u

Note: Above properties listed information are typical or representative only.

### GRAPHITE BOND COPPER MATERIAL CONFIGURATIONS AVAILABLE:

| Structure             |               | GTM Bond  | Adhesive Type |           |           |         | Laminated Type (Insulation & Adhesive)   |         |         |         |
|-----------------------|---------------|---|---------------|-----------|-----------|---------|--|---------|---------|---------|
| Layer                 | Type          |   | Non AC        | Single AC | Double AC |         | P30-A30  | P30-A10 | P10-A30 | P10-A10 |
| I                     | Liner         |   |               |           | Release   | Release | Laminated Insulation<br>(Polyester Tape/Insulative Adhesion Tape)<br>(Do Not Remove) |         |         |         |
| II                    | Front Surface |   |               |           | 10u       | 30u     |  |         |         |         |
| III                   | Graphite      | Graphite Thermal Material 130u (0.130mm)            |               |           |           |         |  |         |         |         |
| IV                    | Bond Surface  | Bonding Insulative Thickness = 10u                  |               |           |           |         |  |         |         |         |
| V                     | Bond Material | BM Thickness = Aluminum (AL) 0.018mm or As Required |               |           |           |         |  |         |         |         |
| VI                    | Rear Surface  |   | 30u           | 10u       | 30u       | 10u     | 30u  | 10u     | 30u     | 10u     |
| VII                   | Release Liner |   | Yes           | Yes       | Yes       | Yes     | Yes  | Yes     | Yes     | Yes     |
| Total Structure Layer |               | 3   | 5             | 5         | 7         | 7       | 7  | 7       | 7       | 7       |
| Total Thickness       |               | 610u+BM   | 640u+BM       | 620u+BM   | 650u+BM   | 650u+BM | 670u+BM  | 650u+BM | 650u+BM | 630u+BM |
| Heat resistance       |               | 100 °C  | 100 °C        | 100 °C    | 100 °C    | 100 °C  | 100 °C   | 100 °C  | 100 °C  | 100 °C  |

NOTICE: information contained herein are based on our best knowledge and accurate. However, before using, user shall determine, the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith.

### LISAT

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