

Technical Data Sheet

73025 Thermal White – Thermal Conductive Adhesive Tape

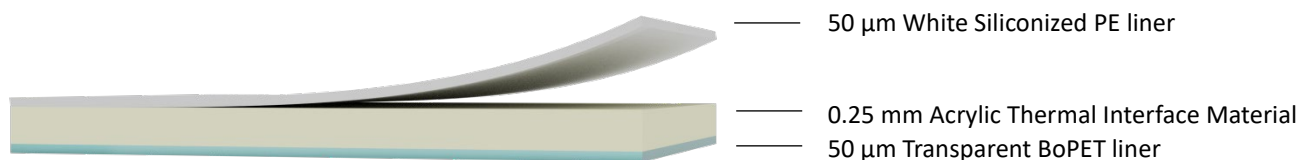
Product Description

CCL Olympic 73025TW features a double-sided pressure-sensitive adhesive tape with a thermal conductivity of 1.5 W/m·K. This product is based on a strong high-performance acrylic adhesive that provides enduring and resilient bonds. This silicone-free tape has excellent electrical insulating properties, making it well-suited for bonding heat-generating electrical components to heat sinks and spreaders.

Product Features

- 0.25 mm thick
- Thermal conductivity of 1.5 W/m·K
- Tacky for optimal contact to any surface
- Double-sided adhesion
- Intrinsic adhesion
- Electric Insulator
- Non-silicone base
- Slitted on request

Product Construction



Technical Information Note: The technical data below cannot be used for specification purposes but should be considered representative or typical only.

Available sizes

| Property | Value | Additional information |
|----------------------|---------|-------------------------|
| Standard roll length | 66 m. | Other lengths available |
| Effective roll width | 900 mm. | |
| Core size | 3 inch. | HIPS oversized |

Typical Product Properties & Test Conditions

| Property | Value | Method | Additional information |
|----------------------|----------------------------|-----------------|------------------------|
| Total tape thickness | 0.25 mm. | ASTM D3652 | |
| Thickness tolerance | 15% | | |
| Density | 1.8 g/cm ³ | Internal method | |
| Polymer Matrix | Acrylic Adhesive | | |
| Carrier | No carrier | | |
| Color | Thermal White | | |
| Top liner | 50 µm White Siliconized PE | | |
| Bottom liner | 50 µm Transparent BoPET | | |

Typical Performance Characteristics

| Property | Value | Method | Additional information |
|--------------------------------|-----------|-----------------|---------------------------------------|
| 90° peel adhesion, initial | 10 N/cm | ASTM D3330 | Stainless Steel 20 min. dwell time |
| 90° peel adhesion, final | 15 N/cm | ASTM D3330 | Stainless Steel 72 hrs. dwell time |
| Static shear (20°C) | 1500 G | ASTM D3654 | |
| Dynamic Shear | 650 kPa | ASTM D1002 | 12.7 mm/min, 72h dwell time |
| Shore hardness A | 40 | ASTM D2240 | 30 sec. delay |
| Thermal conductivity | 1.5 W/m·K | ASTM D5470 | |
| Flammability | UL94 V-0 | UL94 V | UL Certified |
| DC Breakdown voltage | >5 kVDC | IEC 60243-2 | |
| Comparative Tracking Index | ≥600 V | IEC 60112 | |
| Minimum long term temperature | - 40 °C | Internal Method | |
| Maximum long term temperature | 150 °C | Internal Method | |
| Maximum short term temperature | 230 °C | Internal Method | |

Additional information of test method

- 90° peel adhesion according to ASTM D3330. Stainless steel substrate, aluminum backing. 72-hour dwell time at room temperature. Listed value is average value force to remove adhesive at room temperature.
- Static shear according to ASTM D3654. Stainless steel substrates, 0.5 sq.in. (3.23 sq.cm.), 24-hour dwell time at room temperature. The adhesive will hold its listed weight for 10,000 minutes (approximately seven days) at the listed temperature.
- Long term maximum temperature is the temperature at which the adhesive will hold 250 grams under static load (10,000 minutes).
- Short term maximum temperature is the temperature to which the adhesive can be exposed for four hours with a static load of 100 grams.

Product Applications

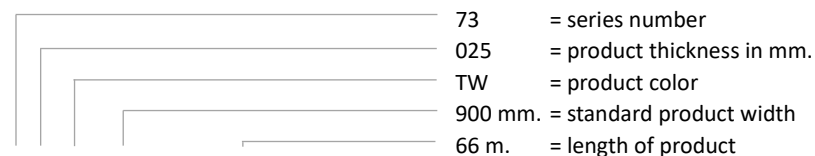
73025TW is designed for applications in the electronic industry, including:

- LED assembly
- PCB assembly
- Mounting heat sinks and heat spreaders
- Battery pack assembly

Product code structure

The structure of our product code is as follows:

For example 73025TW:



73025TW 900mm x 66m

Custom Solutions

We can modify all our adhesive and mechanical properties for various solutions, such as peel, adhesion, shear, softness, impact resistance, tack, color, rigidity, flexibility, temperature resistance and even smell to create the solution that meets your exact specifications.

Additional Product Information

| | |
|---------------------------------|--|
| Product Application | The application surface should be clean and dry. In order to optimize performance, surface temperatures should be around room temperature. |
| Storage Conditions & Shelf Life | 73025TW Olympic tapes must be stored between 10°C to 30°C, and 0-95% relative humidity. The optimum storage conditions are 22°C and 50% relative humidity and in original sealed packaging. If stored under recommended conditions, then this material will retain its specified performance criteria for 2 years. Performance of tapes is not projected to change even after shelf life expires, but it is recommended that the tapes be used within two years. |
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