

# Technical Data Sheet

## 7320 Thermal White – Thermal Conductive Adhesive Tape

### Product Description

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CCL Olympic 7320TW 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.

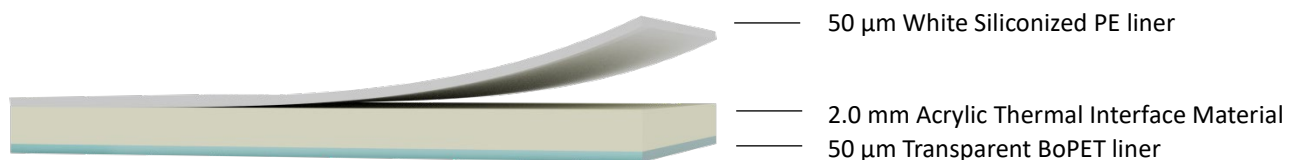
### Product Features

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- 2.0 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

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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 | 15 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 | 2.0 mm.                    | ASTM D3652      |                        |
| Thickness tolerance  | 10%                        |                 |                        |
| Density              | 1.8 g/cm <sup>3</sup>      | 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     | 20 N/cm   | ASTM D3330      | Stainless Steel<br>20 min. dwell time |
| 90° Peel Adhesion, Final       | 25 N/cm   | ASTM D3330      | Stainless Steel<br>72 hrs. dwell time |
| Static Shear (20°C)            | 1500 G    | ASTM D3654      |                                       |
| Dynamic Shear                  | 500 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           | >50 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 test method

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- 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

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7320TW is designed for applications in the electronic industry, including:

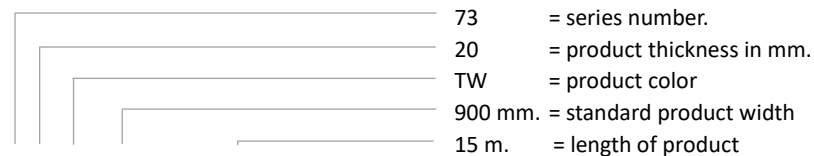
- LED assembly
- PCB assembly
- Mounting heat sinks and heat spreaders
- Battery pack assembly

## Product code structure

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The structure of our product code is as follows:

For example 7320TW:



**7320TW 900mm x 15m**

## Custom Solutions

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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

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|---------------------------------|---|
| 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 | 7320TW 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. |
| Conflict Minerals               | Conflict Minerals refers to illegal mining of minerals or other derivatives (Tin, Tantalum, Tungsten and Gold) mined in the provinces of the DRC (Democratic Republic of Congo). CCL-Olympic does not use Tin, Tantalum, Tungsten or Gold, or any derivative thereof, for the production of any of their products. Official statement available on request.   |
| RoHS                            | RoHS (Restriction of Hazardous Substances). Olympic hereby confirms that our products from series <b>LBL, 1000, 3000, 5000, 7000, 8000 and 9000</b> comply with EU Directive 2011/65/EU (RoHS recast/RoHS 2), as amended by EU 2015/863. Official statement available on request.   |
| REACH                           | CCL Olympic hereby confirms that in case of products from the series <b>LBL, 1000, 3000, 5000, 7000, 8000 and 9000</b> we always observe the prescriptions of REACH (1907/2006/EC) regulation and the product(s) are fully compliant with the relevant regulation. Official statement available on request.   |
| PFAS                            | At CCL Olympic, we want to reassure our customers that our products are entirely free of PFAS (Per- and Polyfluoroalkyl Substances), underscoring our commitment to product safety and environmental responsibility. Official statement available on request.   |
| ISO                             | CCL Olympic is ISO9001 and ISO14001 certified.  |

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