

# Technical Data Sheet

## 8510 Thermal White – Thermal Interface Material

### Product Description

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CCL Olympic 8510TW is a tacky and very soft, acrylic, Thermal Interface Material with a thermal conductivity of 2.5 W/m·K. This product is based CCL's latest PURE™ technology which encompasses a group of new plasticizer free and durable acrylic polymers. Together with its tacky surface and intrinsic softness, the 8510TW is ideal gap-filler material suitable for many applications.

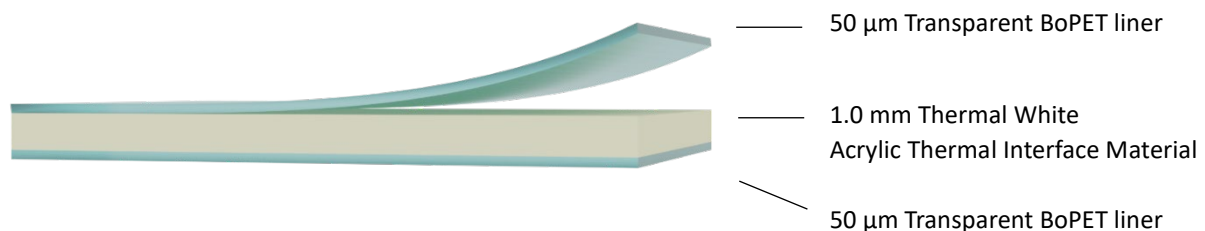
### Product Features

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- 1.0 mm thick
- Thermal conductivity of 2.5 W/m·K
- Low compression force
- Intrinsic adhesion
- Electric Insulator
- Ideal as gap-filler material
- Non-silicone base

### 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 dimensions	700mm x 500mm sheets	

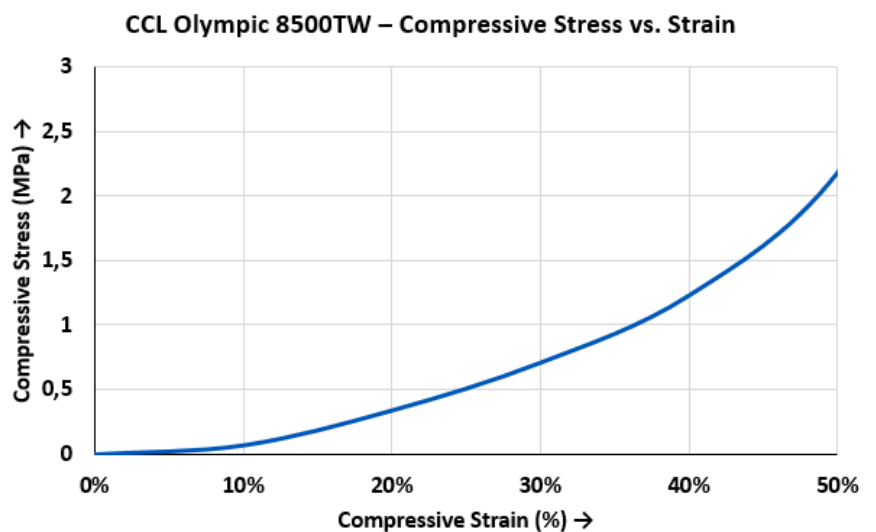
#### Typical Product Properties & Test Conditions

Property	Value	Method	Additional information
Total tape thickness	1.0 mm.	ASTM D3652	
Thickness tolerance	10%		
Density	2.0 g/cm <sup>3</sup>	Internal method	
Polymer Matrix	Very Soft Acrylic		
Carrier	No carrier		
Color	Thermal White		
Top liner	50 µm Transparent BoPET		
Bottom liner	50 µm Transparent BoPET		

## Typical Performance Characteristics

Property	Value	Method	Additional information
Thermal conductivity	2.5 W/m·K	ASTM D5470	
Flammability	UL94 V-0	UL94	
DC Breakdown Voltage	20 kVDC	IEC 60243-2	
Shore Hardness OO	50	ASTM D2240 (30 second delay)	
Comparative Tracking Index	≥600 V	IEC 60112	
Minimum long term temperature	- 40 °C	Internal Method	
Maximum short term temperature	230 °C	Internal Method	
Maximum long term temperature	150 °C	Internal Method	

**Specimen diameter:** 30 mm  
**Specimen thickness:** 3 mm  
**Strain rate:** 12 mm/min  
**Preload:** 1 N



## Product Applications

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8510TW is designed for applications in the electronic industry, including:

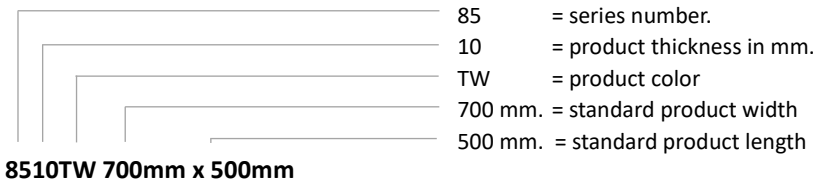
- LED assembly
- PCB assembly
- Mounting heat sinks and heat spreaders
- Battery pack assembly

## Product code structure

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The structure of our product code is as follows:

For example 8510TW:



## 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	8510TW 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	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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