

Technical Data Sheet

7310 Thermal White – Thermal Conductive Adhesive Tape

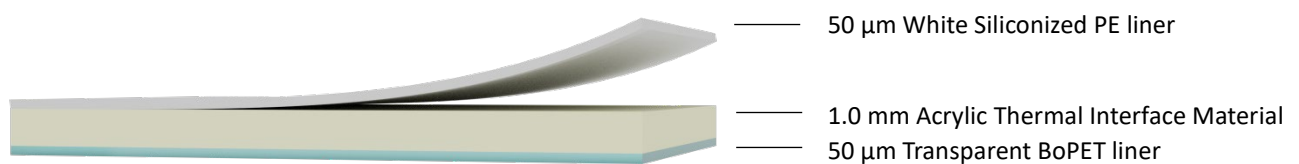
Product Description

CCL Olympic 7310TW 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

- 1.0 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



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	20 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	1.0 mm.	ASTM D3652	
Thickness tolerance	10%		
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	20 N/cm	ASTM D3330	Stainless Steel 20 min. dwell time
90° Peel Adhesion, Final	25 N/cm	ASTM D3330	Stainless Steel 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	33 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


7310TW 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 7310TW:

	73	= series number.
	10	= product thickness in mm.
	TW	= product color
	900 mm.	= standard product width
	33 m.	= length of product

7310TW 900mm x 33m

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	7310TW 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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