

## Technical Data – HB150TC

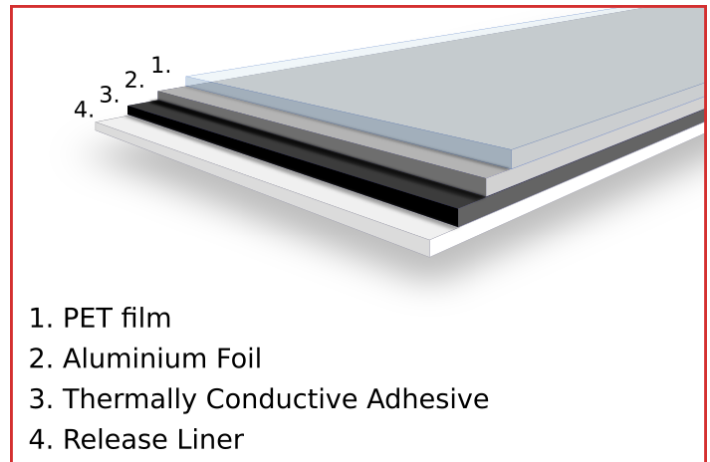
### Product description

Thermal spread & interface single sided tape, a newly developed material with excellent heat spread / diffusion properties and very good dielectric and absorption characteristics. The tape stabilizes the function of the device it is applied to, reducing malfunction through high temperatures emitted from specific components. Thermal Diffusivity Tape

- Superior thermal conductivity in the plane
- Quick heat spread with graphite adhesive
- Excellent adhesion and stability
- Excellent electrical conductivity
- Approved (LED TV Thermal Sheet)

### Construction

PET: Good electrical isolation & Die cutting  
 Aluminium: Easy to heat diffusion and conduction  
 Adhesive: High thermal conductivity and diffusion (Graphite adhesive)  
 Liner: Release Liner



1. PET film
2. Aluminium Foil
3. Thermally Conductive Adhesive
4. Release Liner

### Technical data

Item	Unit	Spec.	Remarks
<b>Total thickness</b>	µm	150 (-5, +10)	Thickness Gauge
<b>Adhesive strength</b>	gf / inch	1000 ↑	180° Peel / PET 25µm / SUS 304
<b>Contact resistance – TOP</b>	Ω / inch	Non Conductive	1 inch surface resistance
<b>Contact resistance – BOTTOM</b>	Ω / inch	10 <sup>3</sup> Ω ↑	1 inch surface resistance
<b>Thermal conductivity (X-Y axis) HB150TC</b>	W/m.K	100	NETZSCH LFA 447 (KAIST)
<b>Thermal conductivity (X-Y axis) Graphite</b>	W/m.K	108	NETZSCH LFA 447 (KAIST)
<b>Dielectric Breakdown Voltage</b>	KV	10	KS C 2105
<b>Operating Temperature</b>	°C	-10 ~ 90	-

### Application:

1. Mobile phone: Dual Core CPU / Firm / Battery (Cover)
2. LED TV, Notebook, Tablet PC and thin Electronics devices with High Efficiency
3. Heat Spreader for variety of applications

Unless stated otherwise all values given are average. All of the tapes in our range should be thoroughly tested on the substrates in the particular application they are intended for. Hi-Bond Tapes Ltd. will not be responsible for product failure unless full testing has been completed. The customer has to decide on the tapes suitability for the intended application.



### High Performance Tapes and Adhesive Products

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