

## Technical Data – PB050N

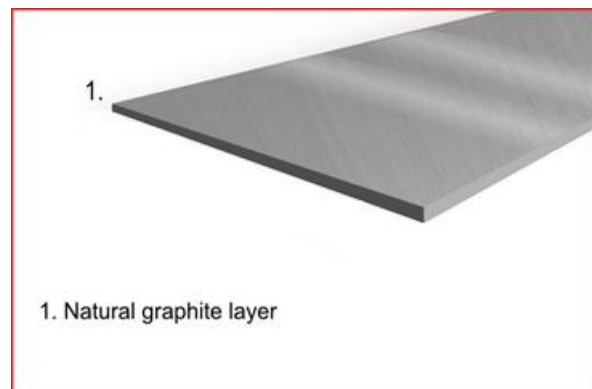
V2.0 30.01.19

### Product description

- Excellent thermal conductivity in horizontal direction (X-Y Plane: 1000~1200W/m.K, Z axis: 5W/m.K or more)
- Eliminate “Hot spots” and reduce surface temperature
- Eliminate the need for both fans and heat pipes
- Excellent Electromagnetic shielding properties
- Flexible and conformable
- Special designs and dimensions can be processed as requested
- RoHS, Halogen-free, UL Certification

### Construction

- Natural graphite (50µm)



### Technical data

Item	Unit		Spec.		Test method
Thickness	µm	Inch	50 ± 10	.0020 ± .0004	-
Density	kg/m <sup>3</sup>	lb/ft <sup>3</sup>	> 1500	> 93.64	-
Thermal Conductivity	W/m.K	1000~1200 (XY Plane) / ≥5 (Z axis)			-
Tensile Strength	MPa	-	4.0~8.0	-	-
Heat Resistance	°C	°F	-200~600	-328~1112	-
Carbon Content	%	-	> 99%	-	-
Quartz (SiO <sub>2</sub> )	%	-	< 1%	-	-
Bromine (Br)	mg/kg	-	Not Detectable	-	30 (ASTM D 7359-08,IC)
Chlorine (Cl)	mg/kg	-	Not Detectable	-	30 (ASTM D 7359-08,IC)
RoHS, PBBs/PBDEs	-	-	PASS	-	IEC 62321 ICP,UV-VIS, GC-MS

### Note

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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