

Thermal Graphite Tape

Product Description

- Thermal graphite tape is combined thermal graphite spreading sheet and is laminated with thermally conductive non-carrier adhesive or heat dissipation film tape..
- It maximizes the thermal spreading function by mixing heat diffusion material with nanosized synthetic graphite powders.
- Equivalent or higher thermal diffusivity compared to Cu
- Competitive price in comparison with certain thickness of Cu and synthetic graphite
- Packing is rolled type for excellent stretching condition and saving loss portion

Technical Data

Category	Description
Material	Combo Thermal Sheet (EMS TCS-120CG)
PSA	Thermal Adhesive
Release Liner	CP paper

Structure

PET Substrate
Graphite Combo Sheet
Thermal Adhesive
Conductive Cladding

Application

Smart phones, LCD, LED, OLED TV displays, monitor, set-top-box, batteries, automotive electronics, laptop and ruggedized computers, game devices.

Technical Data

CONTENTS		UNIT	PROPERTIES	REFERENCE
Material	Base	μm	Combo Thermal Spreading Sheet avg $120\mu\text{m}$ (PET+Carbon+Thermal Adhesive+Combo Thermal Spreader)	
	Adhesive	μm	Thermally Conductive Acrylic Adhesive avg $250\mu\text{m}$	
Thickness		μm	370 ± 10	-
Width		mm	500	-
Length		M/Roll	50 - 100	-
Density		g/cm ³	1.5~1.8	ASTM D-792
Thermal Conductivity (X-Y)		W/m.k	About 500	ASTM E-1461
Elongation Resistance F.		Mpa	30	ASTM D-882
Bending No. (180°)			OK (10,000 times)	
Working Temp.		°C	- 40 ~ 180	ASTM D-792
Adhesive Strength (180peel,)		gf/ 25mm	More than 1,000	KS T 1028, SUS
Holding Strength		sec	More than 3,600	PET film($25\mu\text{m}$),40°C,500g
RoHS, Halogen & Lead Free		-	N.D.	SGS

Note :

- The data is a just example of measurements and not guaranteed performance.
- You are strongly advised to confirm how to use this tape before applying actual equipment and devices.
- Please be careful to put adhesive on the clean substrates for perfect contact.
- When you keep a products as inventory, please avoid direct rays, heat and high humidity.
- The term of validity is twelve months from manufacturing date under the conditions of room temperature 20~25°C, and relative humidity 35~50% in the original carton.

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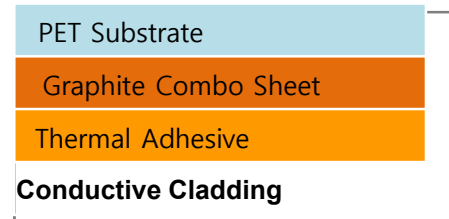
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Material	Base	μm	Combo Thermal Spreading Sheet avg 120μm (PET+Carbon+Thermal Adhesive+Combo Thermal Spreader)	
	Adhesive	μm	Thermally Conductive Acrylic Adhesive avg 250μm	
Thickness		μm	370± 10	-
Width		mm	500	-
Length		M/Roll	50 - 100	-
Density		g/cm3	1.5~1.8	ASTM D-792
Thermal Conductivity (X-Y)		W/m.k	About 500	ASTM E-1461
Elongation Resistance F.		Mpa	30	ASTM D-882
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