

CHANG SUNG PRODUCT OVERVIEW



TP-SG3005 FILM

- ✓ Thermal conductivity = 3.0 W/mK
- ✓ Thickness = 0.5mm
- ✓ High mechanical strength
- ✓ Electrically insulating

TP-SS30XX SERIES FILMS

- ✓ Thermal conductivity = 3.0 W/mK
- ✓ Thickness = 1.0—5.0mm
- ✓ Super soft hardness
- ✓ Electrically insulating

TP-US15XX SERIES FILMS

- ✓ Thermal conductivity = 1.5 W/mK
- ✓ Self adhesion properties
- ✓ Ultra soft hardness

TC-M10 & TC-M20 LIQUID

- ✓ Thermal conductivity = 1.0—2.0 W/mK
- ✓ Good adhesion to metal cases
- ✓ Low viscosity and conforming

TP-SXXXX SERIES FILMS

TP-S10XX TP-S15XX TP-S20XX
TP-S25XX TP-S30XX TP-S60XX

- ✓ Thermal conductivity = 1.0—5.5 W/mK
- ✓ Thickness = 0.5—5.0mm
- ✓ Self adhesion properties
- ✓ Electrically insulating

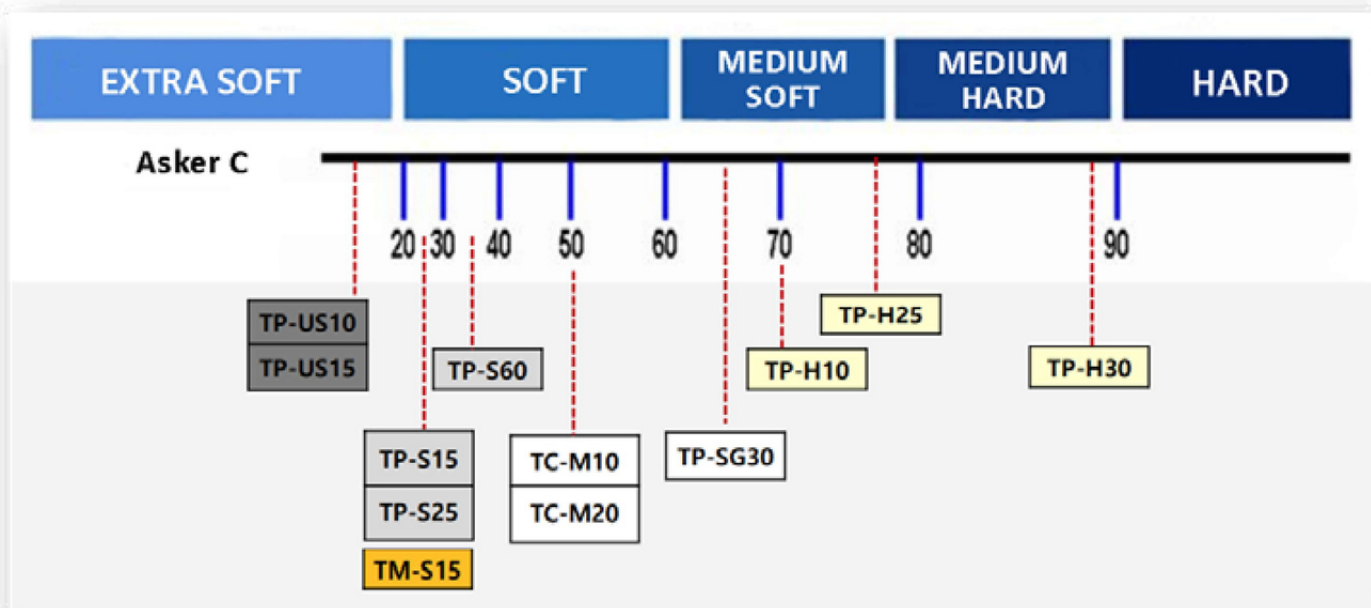
TP-HXXXX SERIES FILMS

TP-H10XX TP-H20XX TP-H25XX
TP-H30XX

- ✓ Thermal conductivity = 1.0—3.0 W/mK
- ✓ Thickness = 0.5—3.0mm
- ✓ Electrically insulating
- ✓ Enhanced mechanical strength



PRODUCT HARDNESS



Designation of Product

TP	—	S	(G)	XX	XX	(HV)
①		②	③	④	⑤	⑥

- ① **TP** : Thermal Pad
TM : Dual Functional Pad (Thermal + EMI Absorbing)
TC : Thermal Compound
- ② **S** : Soft Type
SS : Super Soft Type
US : Ultra Soft Type
H : Hard Type
M : Molding Type (TC-M)
 Grease Type (TC-G)
- ③ **G** : Fiberglass Reinforced Type
- ④ **XX** : Thermal Conductivity (ex. 30 = 3.0 W/mK)
- ⑤ **XX** : Thickness (ex. 05 = 0.5 mm)
- ⑥ **HV** : Special Property (High Breakdown Voltage)
LS : Special Property (Low Siloxane)

SHEET MATERIAL



Chang Sung's thermal interface materials (TIM) are heat radiating with high thermal conductivity and provide effective solutions to internal heating issues observed in various electronic devices.

APPLICATIONS:

- ▼ Telecommunication Devices (router)
- ▼ Power Industries (SMPS)
- ▼ Flat Panel Displays (OLED,LCD)
- ▼ Srt-top Boxes (SD/HD)
- ▼ Graphic Cards and Processors
- ▼ Memory Modules (DDR, S-Ram)
- ▼ Microprocessors



Grade	Color	Size (mm)	Thickness (mm)	Hardness (Asker C)	Thermal conductivity (W/mK)	Tensile strength (MPa)	Withstand voltage (kV)	Volume resistivity (Ω -cm)	Flammability (UL94)	
TP-S15	Gray	300 x 300	0.5 ~ 6.0	25	1.5	> 0.2	> 5	> 10^{13}	V-0	Soft
TP-S25	Purple	300 x 300	0.5 ~ 7.0	25	2.5	> 0.2	> 5	> 10^{13}	V-0	Soft
TP-S60	Pink	300 x 300	1.0 ~ 3.0	35	6.0	> 0.2	> 5	> 10^{13}	V-0	Soft
TP-US15	Sky Blue	300 x 300	0.5 ~ 5.0	9	1.5	> 0.1	> 5	> 10^{13}	V-0	Ultra Soft
TP-H10	Sky Blue	300 x 300	0.5	65	1.0	> 1.0	> 5	> 10^{13}	V-0	Hard
TP-H30	Yellow	300 x 300	0.5	45	3.0	> 0.5	> 5	> 10^{13}	V-0	Hard Adhesive
TP-SS30D	Gray	300 x 300	1.0~4.0	20	3.0	> 0.2	> 5	> 10^{13}	V-0	Hard/Soft