

Thermal management adhesive tape

Thermal Radiation Tape / TP-7606、TP-7623

1. Features

Thermal radiation tape TP-7606 and TP-7623 is single-coated pressure sensitive adhesive tape.

It contributes to heat release of devices by effective thermal diffusion and energy release as far-infrared rays.

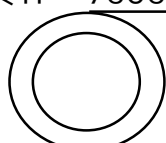
Thin thermal radiation tape is especially useful for small and light devices such as smart phone, tablet-type device, LCD, PDP, OLED, LED lighting and power device.

It can be used with metal materials such as Cu or SECC due to low corrosion.

TP-7623 which has Cu or Al foil respectively, shows excellent thermal diffusion performance in-plane direction, furthermore. Therefore it can be substituted for graphite sheet.

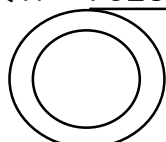
2. Compositions

<TP-7606>



Release Liner	:	Silicone coated PET] Thickness : 50μm
PSA	:	Acrylic PSA (thermal conductive) 25μm	
Thermal radiation layer	:	Thermal Radiation layer(Urethane) 25μm	

<TP-7623>



Release Liner	:	Silicone coated PET] Thickness : 70μm
PSA	:	Acrylic PSA 5μm	
Cu foil	:	Cu foil 35μm	
PSA	:	Acrylic PSA 5μm	
Thermal radiation layer	:	Thermal Radiation layer(Urethane) 25μm	

3. Specification (TP-7623)

- Tape size : 500mm width × 50m length / roll (3 inch core)
- Packaging : 1 roll / case (in hanging condition)
Case size: (L)300mm × (W)300mm × (H)550mm
Package weight: 12kg / case
- MOQ : 1 case

4. Adhesive Properties

Product No.	TP-7606	TP-7623	Measuring method
Thickness (μm)	50	70	
Thermal emissivity	0.9	0.9	ASTM C1371
Thermal conductivity (W/m·K)	0.7	0.7	Steady heat flow meter method
Thermal resistance (m ² ·K/W)	4.5×10^{-5}	1.1×10^{-4}	Steady heat flow meter method
Peel strength (N/25mm)	4.1	13.0	JIS Z 0237, 180° peel
Holding power (mm/24h)	< 0.1mm	< 0.1mm	Loading 1kg weight under 80°C. Measuring gap length after 24h. Adherent area: 25mm × 25mm, Adherend: SUS
Shear adhesive (N)	323	503	Adherent area: 25mm × 25mm Adherend: SUS ※100μm PETbacking (TP-7606)
Flame resistance	-	-	UL-94
Volume resistivity (Ω cm)	2.5×10^{15}	3.9×10^{13}	JIS K 6911
Dielectric breakdown voltage (kV)	4.2	1.9	JIS C 2110

※The property values described in this document are actual measurements measured by us, not guaranteed values. Please consider and confirm

whether the product is suitable for the intended use before use.

5. Caution

【Handling precautions】

- Store in a cool and dark place away from high temperature and direct sunlight.

【Safety and hygiene precautions】

- Do not stick directly on the skin.
- Before using, please wipe any oil, moisture and dust etc. on the adherent surface.
- If the usage environment is low temperature, it may be difficult to attach. Please store and use at room temperature in winter.
- Please read the Safety Data Sheet (SDS) before use. Please ask the sales department for SDS.