

Heat Insulation Sheets / Heat Insulation Tapes

Heat Sinks / Heat Radiation Gel Sheets

3rd day shipping is available for Heat Insulation Sheets.

Heat Insulation Sheets

HOPES
(Standard Type)

Type	Material	Adhesive Part
HOPES	High Density Polyethylene	Acrylic Adhesive

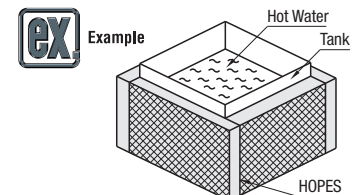
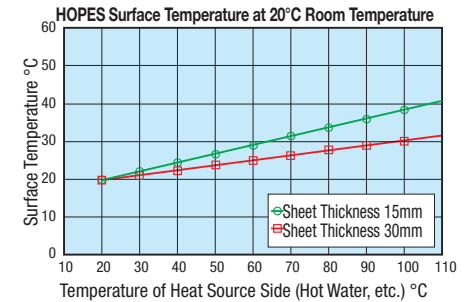
Characteristic Value		
Item	Unit	HOPES
Heat Resistance Temperature	°C	105
Thermal Conductivity	W/mK	0.03
Water Absorption Ratio	mg/cm ²	0.1
Surface Density	kg/m ²	0.39
Color	-	White

RoHS 10

* Temperature limit for seals is 80°C.

Part Number	Type	T	A Selection	Unit Price				
				B Selection				
HOPES	15	100	100					
			200					
			400					
	30	100	100					
			200					
			400					

Ordering Example: Part Number - A - B
HOPES15 - 100 - 200



- Peel off backing paper (with 1cm grids) to adhere it to an object. Clean the mating surface off oil and dust.
- Can be cut with a utility knife. Cut with the adhesive side up.
- Adhesive Strength (90 Peeling Strength): 19.6N/25mm Width (When affixed to SUS304)

3rd day shipping is available for Heat Insulation Tapes.

Heat Insulation Tapes

HOPET

Type	Material	Adhesive Part
HOPET	Heat Resistant Polyethylene	Acrylic Adhesive

Characteristic Value		
Item	Unit	HOPET
Heat Resistance Temperature	°C	105
Thermal Conductivity	W/mK	0.03
Water Absorption Ratio	mg/cm ²	0.1
Surface Density	kg/m ²	0.30*
Color	-	Gray

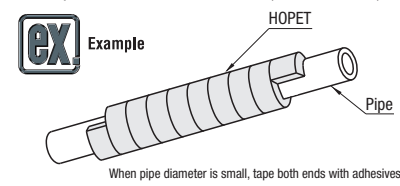
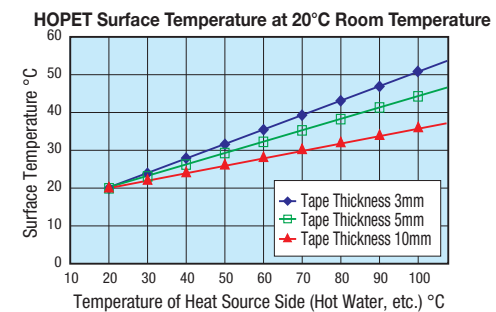
RoHS 10

* Temperature limit for seals is 80°C.

* When T=3

Part Number	Type	T (mm)	W (mm) Selection	Unit Price			
				L (m) Selection			
HOPET	3	100	30				
			50				
			100				
	5	100	30				
			50				
			100				
10	100	30					
		50					
		100					

L dimension is in meters.
Ordering Example: Part Number - W - L
HOPET3 - 100 - 5



- Peel off backing paper (with 1cm grids) to adhere it to an object. Clean the mating surface off oil and dust.
- Can be cut with a utility knife. Cut with the adhesive side up.
- Adhesive Strength (90 Peeling Strength): 19.6N/25mm Width (When affixed to SUS304)

Heat Sinks

Type	Material	Surface Treatment
HEAT	-	-
HEATW	A6063S-T5	Clear Anodize
HEATB	-	Black Anodize

No. 0.5: Number of Fins 6, No. 0.7: Number of Fins 7, No. 1: Number of Fins 7, No. 2: Number of Fins 10

RoHS 10

Part Number	Type	No.	L 1mm Increments	W	A	E	T	t	Number of Fins

No.	L	Unit Price														
		HEAT				HEATW				HEATB						
0.5		50-100	101-200	201-300	301-400	401-500	50-100	101-200	201-300	301-400	401-500	50-100	101-200	201-300	301-400	401-500
0.7																
1																
2																

Ordering Example: Part Number - L - TP
HEAT 1 - 200 - TP

Alterations: Alterations are not applicable to No. 0.5 and No. 0.7.

Alteration	Code (Number of Holes)	Spec.
Mounting Tapped Hole	TP	Adds tapped holes (M3 (Coarse)) between the fins.

Heat Radiation Gel Sheets

Type	Material	Hardness
HTCH (High Thermal Conduction)	Silicone	50

RoHS 10

How to Use

- Peel off single side of backing paper slowly.
- Paste it on the heat-generating part carefully so that air bubbles don't get trapped in. Then peel off the rest of the backing paper.
- Paste it carefully so that air bubbles don't get in between the heat radiation gel and heat-discharging part.

Accuracy Standards

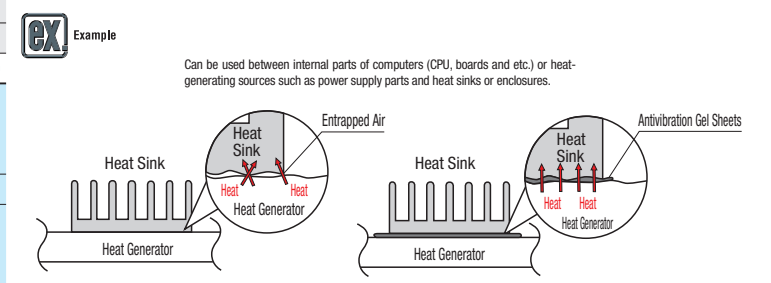
Dimension Tolerance of A and B

50mm or Less: ±0.5, 51-100: ±1.0, 101-200: ±1.5, 201 or More: ±2.0

Penetration: JIS K2207 See P391

Part Number	Type	T	1mm Increment	
			A	B
HTCH	0.5	1	10~350	10~350
		1		
		2		

Part Number	Type	T	A	Unit Price					
				B					
HTCH	0.5	1	10-100						
			101-200						
			201-300						
			301-350						
			1	1	10-100				
					101-200				
	201-300								
	301-350								
	2	1			10-100				
					101-200				
			201-300						
			301-350						



Features

- With excellent flexibility and adhesiveness, it can closely adhere to concave or convex surface without trapping air.
- Excels in electric insulation and flame resistance.
- With low temperature dependency, it is suitable for use in wide temperature range from -40°C to 200°C.

Item	Unit	HTCH
Thermal Conductivity (Hot Wire Method)	W/m·K	2.1
Appearance	-	Gray
Specific Gravity	-	2.8
Hardness	Penetration: 1/10mm	50
Volume Resistivity	Ω·cm	5.7x10 ¹²
Tensile Strength	MPa	0.12
Elongation	%	220
Compression Set	%	92
Dielectric Breakdown Strength	kV/mm	7.2
Content of Low-Molecule Siloxane	ppm	300 or Less
Flame Resistance	-	V-0
Normal Temperature Range	°C	-40~200
Magnetic Permeability (Magnetic Loss)	<1GHz	-