

# PVC Sheets / Sheet Holders

Standard, Anti-Static, Anti-Static with Grid Lines

**PVC Sheets**

**HPEMT** (Standard Type)  
**HPERT** (Anti-Static Type)  
**HPEVT** (Anti-Static with Grid Lines)

**\*HPEVT** (Grid Interval 100x100mm)

Type	Material	Color	Heat Resistance Temperature
① HPEMT	Vinyl Chloride (PVC)	Translucent	0 ~ 60°C
② HPERT		Translucent (with Carbon Print)	
③ HPEVT		Translucent (with Carbon Print)	

For Transparency, refer to the Transparency Comparison Photo below.

Part Number	Length L (m)	Thickness	Width W (m)	Mass (kg)*			L1		L10		L50	
				L1	L10	L50	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
<b>Type</b>	<b>T (Nominal)</b>						1 ~ 9 sheet(s)	10 ~ 50	1 ~ 9 sheet(s)	10 ~ 50	1 ~ 9 sheet(s)	10 ~ 50
HPEMT	0.2	1 10 50	0.2	1.2	0.3	4.2	16.2					
HPERT												
HPEVT												

\*Specified in meter increments. \* The mass includes paper cores (Except for L1).

Ordering Example: Part Number - L  
 HPEMT0.2 - 50

## Film Property

Item	Direction	Value	
		HPEMT (Standard Type)	HPERT, HPEVT (Anti-Static, Anti-Static with Grid Lines)
Tensile Strength	Vertical	300kgf/cm <sup>2</sup>	290kgf/cm <sup>2</sup>
	Horizontal	265kgf/cm <sup>2</sup>	260kgf/cm <sup>2</sup>
Tear Strength	Vertical	1520gf	1500gf
	Horizontal	1430gf	1450gf
Heat Resistance	-	60°C	60°C
Surface Resistivity	-	10 <sup>15</sup> Ω	10 <sup>15</sup> Ω

Item	HPEMT (Standard Type)	HPERT (Anti-Static Type)	HPEVT (Anti-Static with Grid Lines)
	Oil	○	○
Acid	△	△	×
Alkali	○	○	×
Solvent (Toluene, Acetone, Ethyl Acetate)	×	×	×

○=Good, △=Acceptable, ×=Not Acceptable. \*HPEVT is not chemically resistant because the color of the ink on the grid might change or degrade.  
 \*Not flame resistant. (However, Vinyl Chloride has self-extinguishing property.)  
 \*Not suitable for a clean room due to a large quantity of phthalate compounds as plasticizer.

## Sheet Holders

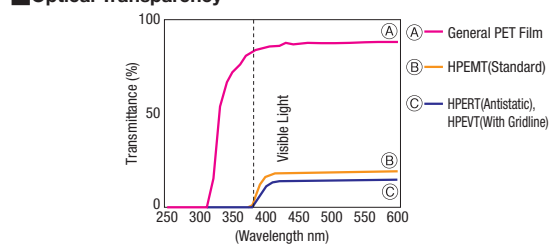
**HRLCS5**      **HRLCS6**      **HRLCS8**

Material: Polypropylene (Light Gray)

Part Number	No.	Length 1mm Increment	Mass kg/m	Extrusion (Series)	Unit Price/m
					1 ~ 70 pcs(s).
<b>HRLCS</b>	5	50~2000	0.045	HFS5	25
	6			HFS6	
	8			HFS8	
			0.072	HFS8-45	45

Ordering Example: Part Number - Length  
 HRLCS5 - 500

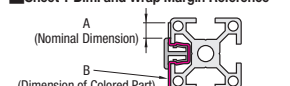
## Optical Transparency



## Transparency Comparison Photo (Sheet - Subject Distance: 50mm)



## Sheet T Dim. and Wrap Margin Reference



Part Number	Extrusion Used	A(mm)	B(mm)
HRLCS5	HFS5-2020	3 or more	25
HRLCS6	HFS6-3030	3 or more	35
	HFS8-4040	5 or more	45
HRLCS8	HFS8-4545	5 or more	50

**Features**  
 \*Used when fixing PVC sheets and non-PVC sheets onto extrusion frames.

# Non-PVC Sheets

Standard, Anti-Static, High-Grade Anti-Static, Light-Shielding, UV Protection

**Non-PVC Sheets**

**HPEFT** (Standard Type)  
**HPEDT** (Anti-Static Type)  
**HPEGT** (High-Grade Anti-Static Type)  
**HPEHT** (Light-Shielding Type)  
**HPELT** (UV Protection Type)

Type	Material	Color	Heat Resistance Temperature
① HPEFT	Polyethylene (PE), Ethylene Vinyl Acetate (EVA)	Transparent	-20°C~110°C
② HPEDT	Polyethylene (PE)	Translucent	
③ HPEGT	Polypropylene (PP)	Transparent (Green)	
④ HPEHT	Polyethylene (PE), Nylon (NY), Aluminum (A $\delta$ )	Silver	-20°C~80°C
⑤ HPELT	Polyester (PET)	Transparent	

For Transparency, refer to the Transparency Comparison Photo below. \*HPEHT (Light-Shielding Type) has 99.9% rate of shading.

Part Number	Length L (m)	Thickness	Width W (m)	Mass (kg)*			L1		L10		L50	
				L1	L10	L50	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
<b>Type</b>	<b>T (Nominal)</b>						1 ~ 9 sheet(s)	10 ~ 50	1 ~ 9 sheet(s)	10 ~ 50	1 ~ 9 sheet(s)	10 ~ 50
HPEFT	0.2	1 10 50	0.2	1.2	0.4	4.2	13.1					
HPEDT			0.22	1.1	0.3	2.6	12.7					
HPEGT			0.18	1.2	0.3	2.5	12.6					
HPEHT			0.19	0.82	0.2	2.4	12.0					

\*Specified in meter increments. \* The mass includes paper cores (Except for L1).

Ordering Example: Part Number - L  
 HPEHT0.2 - 10

## Film Property

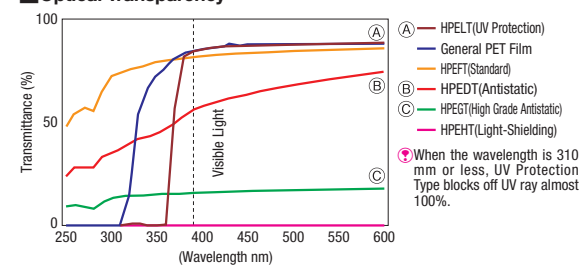
Item	Direction	Value				
		Standard Type	Anti-Static Type	High-Grade Anti-Static Type	Light-Shielding Type	UV Protection Type
Tensile Strength	Vertical	343kgf/cm <sup>2</sup>	242kgf/cm <sup>2</sup>	360kgf/cm <sup>2</sup>	463kgf/cm <sup>2</sup>	714kgf/cm <sup>2</sup>
	Horizontal	329kgf/cm <sup>2</sup>	225kgf/cm <sup>2</sup>	380kgf/cm <sup>2</sup>	433kgf/cm <sup>2</sup>	670kgf/cm <sup>2</sup>
Tear Strength	Vertical	93gf	536gf	1400gf	144gf	1490gf
	Horizontal	100gf	704gf	1200gf	154gf	1400gf
Heat Resistance	-	110°C	80°C	80°C	80°C	80°C
Surface Resistivity	-	10 <sup>14</sup> Ω	10 <sup>12</sup> Ω	10 <sup>9</sup> Ω	-	-

## Outgas Testing Result of Anti-Static and High-Grade Anti-Static Type

Sheet	Measuring Method	SIM Method			
		Diethyl Malonate	Ethyl Acetate	Dibutyl Phthalate	Diocyl Phthalate
Anti-Static Type	Outgas	Below Detection Limit	Below Detection Limit	Below Detection Limit	Below Detection Limit
	60°C 60min. Detection Limit	2.5ng/g	2.5ng/g	5.0ng/g	25.0ng/g
High-Grade Anti-Static Type	Outgas	Total amount of hydrocarbon compound will be 167µg/g in 85°Cx16hr.			
	85°C 16hr. Detection Limit	Below Detection Limit			

SIM: Stands for "Select Ion Monitoring" (one type of Gas Chromatography Analysis). Measures pre-registered molecular weight substance only in high accuracy.

## Optical Transparency



## Transparency Comparison Photo (Sheet - Subject Distance: 50mm)

