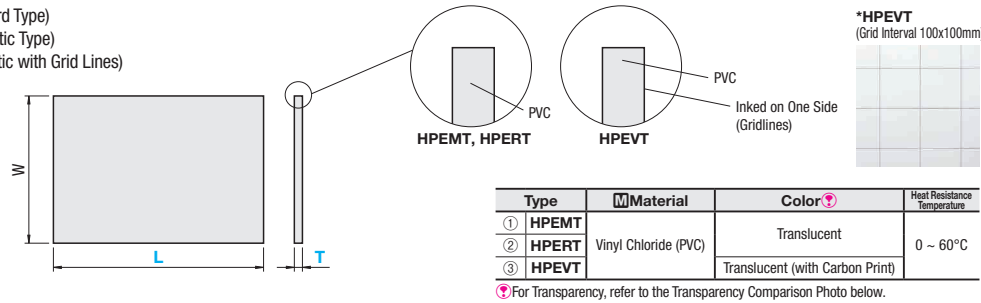


PVC Sheets / Sheet Holders

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

PVC Sheets

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



Part Number		Length L (m)	Thickness	Width W (m)	Mass (kg)*			L1		L10		L50	
Type	T (Nominal)				L1	L10	L50	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
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 HPEMT0.2 - L 50

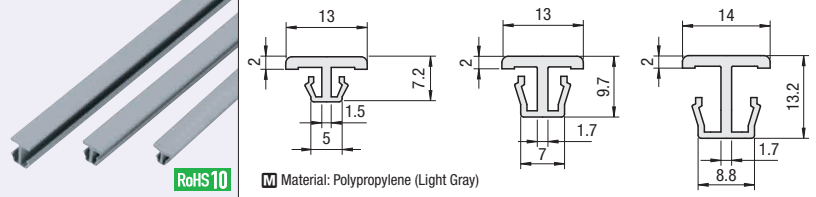
Film Property

Item	Direction	Value	
		HPEMT (Standard Type)	HPERT, HPEVT (Anti-Static, Anti-Static with Grid Lines)
Tensile Strength	Vertical	300kgf/cm ²	290kgf/cm ²
	Horizontal	265kgf/cm ²	260kgf/cm ²
Tear Strength	Vertical	1520gf	1500gf
	Horizontal	1430gf	1450gf
Heat Resistance	-	60°C	60°C
Surface Resistivity	-	10 ¹⁵ Ω	10 ¹² Ω

Item	HPEMT (Standard Type)	HPERT (Anti-Static Type)	HPEVT (Anti-Static with Grid Lines)
Chemical Resistance			
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.

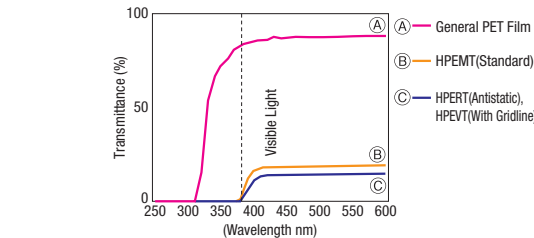
Sheet Holders



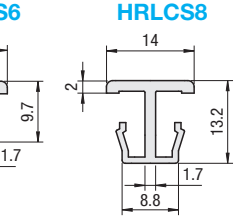
Part Number	No.	Length 1mm Increment	Mass kg/m	Extrusion (Series)	Unit Price/m 1 ~ 70 pcs(s).
HRLCS	5	50~2000	0.045	HFS5	
	6		0.064	HFS6	
	8		0.072	HFS8 HFS8-45	

Ordering Example: Part Number HRLCS5 - Length 500

Optical Transparency

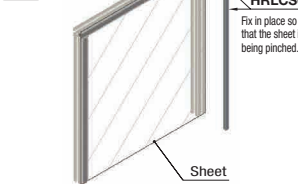


Transparency Comparison Photo (Sheet - Subject Distance: 50mm)

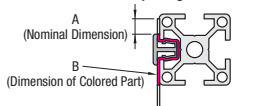


Features

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



Sheet T Dim. and Wrap Margin Reference



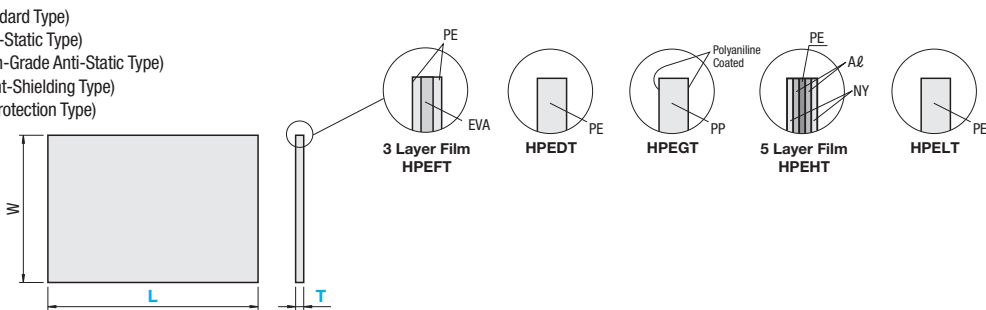
Part Number	Extrusion Used	A(mm)	B(mm)
HRLCS5	HFS5-2020	3 or more	25
HRLCS6	HFS6-3030	5 or more	35
HRLCS8	HFS8-4040		45
	HFS8-4545		50

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)	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	
Type	T (Nominal)				L1	L10	L50	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
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 HPEHT0.2 - L 10

Film Property

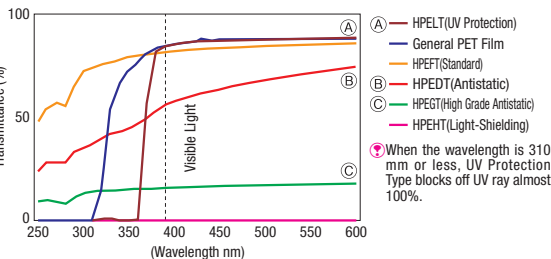
Item	Direction	Value				
		Standard Type	Anti-Static Type	High-Grade Anti-Static Type	Light-Shielding Type	UV Protection Type
Tensile Strength	Vertical	343kgf/cm ²	242kgf/cm ²	360kgf/cm ²	463kgf/cm ²	714kgf/cm ²
	Horizontal	329kgf/cm ²	225kgf/cm ²	380kgf/cm ²	433kgf/cm ²	670kgf/cm ²
Tear Strength	Vertical	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 ¹⁴ Ω	10 ¹² Ω	10 ⁹ Ω	-	-

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

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

