



For backyard of foodstuff facilities or factories

$Hyper\ accordion\ sheet\ {\tiny (indoor\ use\ only)}$

For indoor partitions



P3~6 P7~10

1

Hyper curtain (indoor use only)

Making much of cost performance with the thinner curtain

Hyper curtain with reinforcement

Reinforce air tightness witth double sheets



P11~12 P13

Slit curtain

Minimize external intrusions.



Antistatic & Insectproof, Orange

Users orientation

The Slit curtain is PVC vinyl curtain in slit type sheet. This core property enables smooth and unobstructed traffic, and is possible to create a hygienic environment with this sheet partition.

Energy efficient

The Slit curtain can provide a quick inbound/outbound traffic environment, which indirectly increase the air-conditioning effect and maintain a constant indoor temperature.

Brightly lit with Clear sheet

Different types of sheet with different specifications that cater to various needs. The sheet in high clearness makes an indoor workingplace bright with the excellent lighting effect.

Flame retardant effect

The flame retardant sheet of Slit Curtain has passed the test by the authorities Japan Fire Retardant Association and got the following numbers:

Test number : AO 010246~8
Registered number : E-13-40520

The sheet can easily be used for a flame retardant requirement such as a partition in factory requiring flame retardant material. Items with * marked have the effect.



Registry number in the Fire department

FLAME RETARDANT

Authorized by Japan Fire Retardant Association
Water washing allowed / Need re-treatment of
the flame-retardant in case of dry cleaning.







Super Cold proof

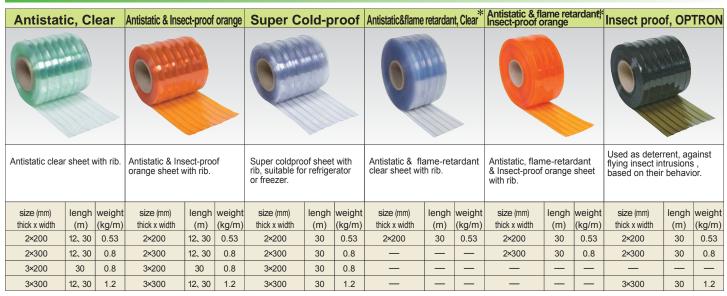
Variety of sheet

Flat sheet:



Sheet with rib:

As both sides of the sheets are with ribs, it is hard to be damaged. It is the improved type having the characteristic stickiness of vinyl chloride.



For partition (wide sheet)

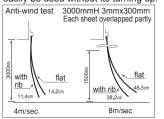
Antistatic, CI	ear	Antistatic & Insect-	proof	Antistatic & flame retardant		
size	lengh	size lengl		size	lengh	
1mm×91.5 • 183cm 2mm×91.5cm	12m	1mm×91.5 • 183cm 2mm×91.5cm	12m	1mm×91.5cm 2mm×91.5cm	12m	

3mm 91.5cm 12m special production on request

**Please cut the sheet 2~3% longer as the soft PVC material shrinks when cut.
**The standard of sheet width is set up with the tolerance of +0mm~5mm. So, in case of width 200mm, the actual size is 195~200mm and, for width 300mm, the actual size is 295~300mm

Anti-wind effect

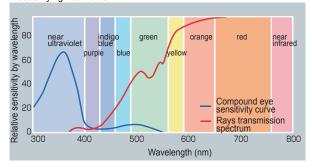
To prevent rain or wind come into indoor by strengthening air tightness with the Slit Curtain's own weight by its thickness and with the overlap of each sheet. Even when wind is rather strong, the Slit Curtain can easily be used without its turning up.



Wind(m/sec)	flat(cm)	with rib(cm)
4	14.2	11.4
8	48.5	38.2

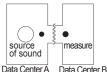
Anti-insect effect

Insect proof orange sheet cuts the area of wavelength 350nm where insects are used to react most. Partition with the Slit Curtain prevents insects flying into inside.



Sound insulation effect

The Slit Curtain puts forth its excellent effect for working sound insulation and much contributes to prevention of pollution. The following shows results of noise reduction after the Slit Curtain is installed at Data Center .



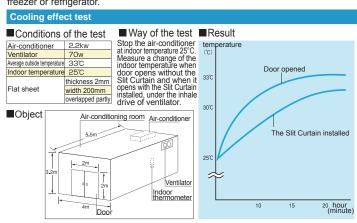
- ★The noise level drops to 16 db (average) by installation of the Slit Curtain. Especially, it gains larger effects at the higher hertz area.
- Sheet: 3mm x 300mm
- of Overlapped partly

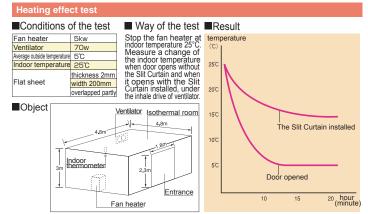
 nterA Data Center B Clear opening: 2.0m(W) x 2.5m(H)

Frequency C	125Hz	1000Hz	2000Hz	3000Hz
Data center A	60db	72db	76db	80db
Data center B	49db	59db	61db	63db
Difference	11db	13db	14db	17db

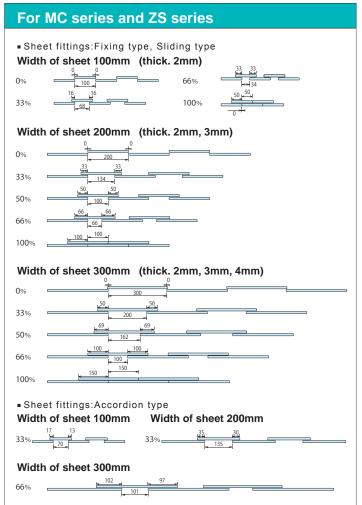
Air-conditioning effect

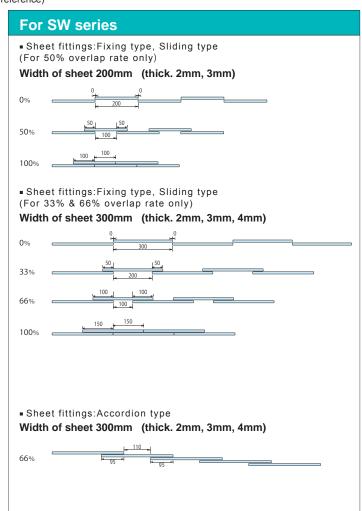
Air-conditioning effect is increased by a partition placed with the Slit Curtain inside of room. It can gain the same effect at controlling air-condition inside of room and freezer or refrigerator.





Overlap rate of each sheet (*Numbers are approximate values for reference)





Type of sheet fittings

Different sheet fittings can be chosen according to site requirements.

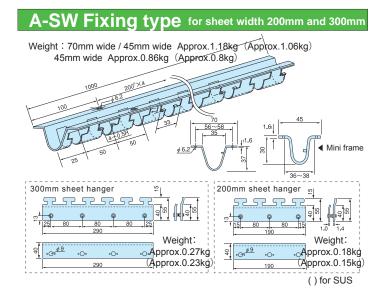
MC series · ZS series

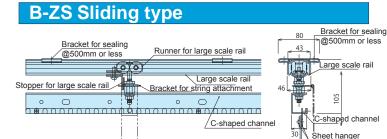
Common structure for installation, with variety of overlap rates and it can use different fittings according to opening dimensions.

A-MC Fixing type Sheet hanger Hanger For 300mm Weight: 0.35kg (approx. 0.32kg) Installation drawing Ō. Screw 2 5 0 0.18kg) For 200mm Weight: 0.2kg (approx. 04kg) Sheet (0) 1 3 5 Wall or ceiling fixing bracket Weight: Approx. 1.47kg (Approx.1.28kg) () for SUS

SW series

With the sheet hanger and bracket in strong durability. Suitable for such sites where there are many traffic of carts as plants or warehouses.



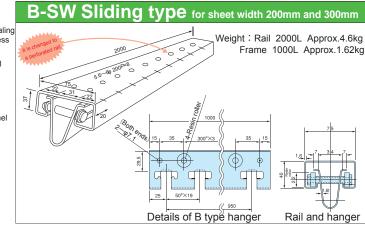


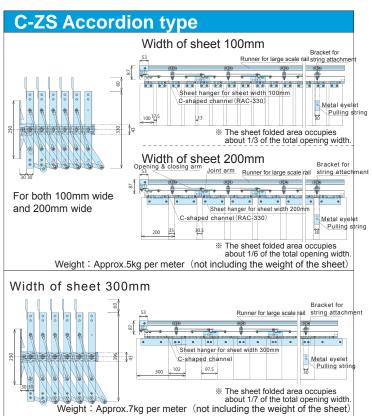
Metal eyelet
Pulling string

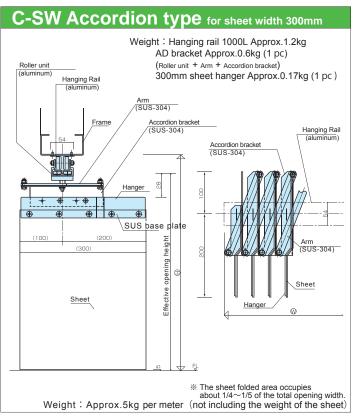
Weight: Approx.2.8kg per meter (not including the weight of the sheet)

Sheet

Pulling string







Hyper accordion sheet

(for indoor use only)

Create beautifully an interior space with the function of stretching and retracting brought by the sheet.



Antistatic, Clear

The Hyper Accordion Sheet, minimized the joint space for each sheet, blocks vastly dust or wind whirling in indoor space. The sheet also excels in durability with its appropriate thickness.

Open and close of the sheet are smooth, just like it of sliding door. The sheet folded area when opened fully is so small as about 1/10 (for Type 250W) of the overall opening space, that enables to get a wider opening. The sheet is folded decently and it does not spoil the nice looking.

Flame-retardant effect

Test number :AO 010249 Registered number :E-(3-40520 Items with *marked have the effect

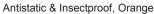


Registry number in the Fire department

FLAME RETARDANT

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Water washing allowed / Need re-treatment of
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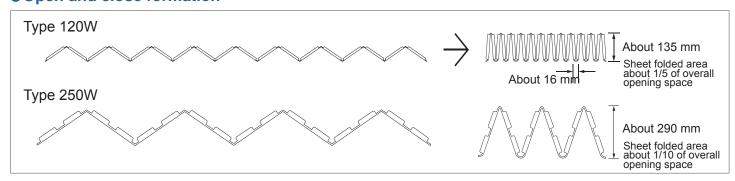


Antistatic, Clear

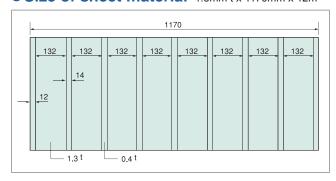
Variety of sheet



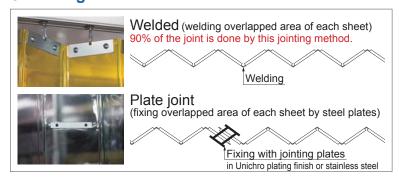
Open and close formation



● Size of sheet material 1.3mm t x 1170mm x 12m



Jointing method



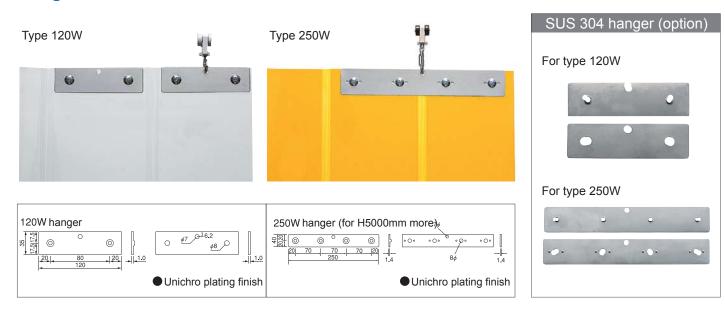




Coldproof, Clear

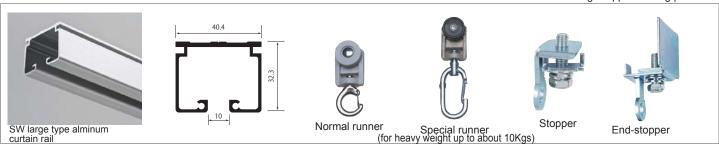
Insectproof Optron

Hanger



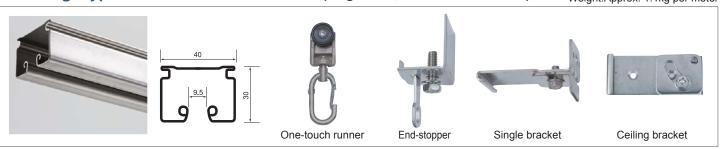
●SW large type aluminum curtain rail (length: 2m, 3m, 4m / radius: 500mm)

Weight:Approx. 0.8kg per meter



●SW large type stainless steel curtain rail (length: 3m, 4m / radius: 530mm)

Weight:Approx. 1.1kg per meter



Whenever the stainless steel curtain rail is used, the single bracket or the ceiling bracket should be used.



Antistatic & flame retardant, Clear



Antistatic & Insectproof, Orange

Option



Large type aluminum curved rail (r. 500mm)



Large type single bracket



Large type ceiling bracket



Chain lock with SUS hook



Sheet for covering space underneath of the rail (Clear – Frame-retardant & Antistatic Polyester yarn encapsulated vinyl sheet 0.5t)



Sheet for covering space underneath of the rail (Orange - insect-proof sheet 0.55t)



Fasten the end of sheet to the frame with hook-and-loop fastener (width 50mm) when closed-for single leaf



Fasten the end of both sheets with hook-and-loop fastener (width 50mm) when closed-for double leaves



Open/close with handle - for single leaf



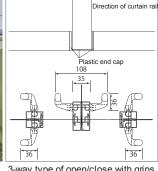
Open/close with grips - for double leaves



With receiver (aluminum) - for single leaf



3-way type of open/close with grips.



3-way type of open/close with grips (Detail drawing)

Note

- Use of SW large type normal runner or SW large type special runner: use the former for the opening size up to Height 3000 mm for 120W type, use the latter for the Height of 3000 mm more for 120W type, use the latter for all 250W type. Calculation of width of the sheet folded area when opened fully: number of the runner x 20 mm + the stopper 30 mm.
- (approx. 1/5 of the opening width for Type 120W and 1/10 for Type 250W)
- Weight: about 2.5Kgs/m² including sheet and rail.
 Weight of the hardware with handle for open/close: about 5Kgs/set for single leaf / about 10Kgs/set for double leaves
- Further details are gladly informed to you anytime on request.

Hyper curtain

(for indoor use only)

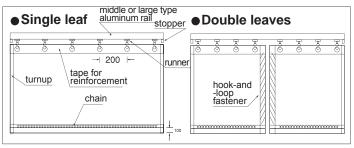
Keep indoor bright, recommendable as a partition for efficient air-conditioning



Standard, Clear

Making use of the characteristics of sheet, and with the variety of parts for rail, the Hyper Curtain provides the sheets in high durability contained threads and variety of sheet colors as well. Partition inside of a wide room with Hyper Curtain according to movement of people and realize an energy saving air flow by blowing wind into necessary space only. Moreover, it is possible to maintain the same lighting environment as just inside of room. Hyper Curtain also makes much of cost performance. It is especially recommendable to endusers who want to cherish indoor environment and, at the same time, to minimize the induction cost.

Specs



Weight of Sheet + Large scale rail: 0.3mm thick = Approx.1.2kgs per m² 0.5mm thick = Approx.1.5kgs per m²

Flame-retardant effect

Test number : Individual numbers given to each products Registered number :E-③-40520 Items with *marked have the effect



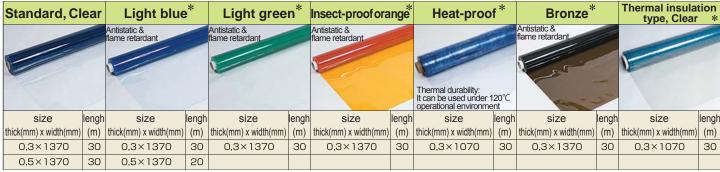
Registry number in the Fire department

FLAME RETARDANT

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Water washing allowed / Need re-treatment of
the flame-retardant in case of dry cleaning.

Sheet with no thread



Weight: 0.3mm thick = 0.4kgs per m² 0.5mm thick = 0.7kgs per m²

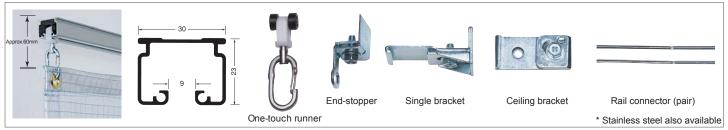
Sheet with thread

Non-inflamma	n-inflammable Standard, Clear		Flame retardant clear		Flame-retardant * & Antistatic clear				* Thermal insulation type, Clear				
size	lengh	size	lengh	size	lengh	size	lengh	size	lengh	size	lengh	size	lengh
thick(mm) x width(mm)	(m)	thick(mm) x width(mm)	(m)	thick(mm) x width(mm)	(m)	thick(mm) x width(mm)	(m)	thick(mm) x width(mm)	(m)	thick(mm) x width(mm)	(m)	thick(mm) x width(mm)	(m)
0.27×1950	30	1cm square 0,3×2030	50	5mm square 0,42×2030	50	1cm square 0.55×2030	30	1cm square 0.5×2030	30	1cm square 0,55×2030	30	2cm square 0.3×1070	50
	2cm square 0.3×2030 50 1cm square 0.55×2030 3C		30			2cm square 0.5×2030	30	1.5cm square 0.25 × 2030	50				
				2cm square0,55×2030	30								

Weight: 0.3mm thick = 0.4kgs per m² 0.5mm thick = 0.7kgs per m²

Curtain Rail

For medium type aluminum curtain rail (length: 2m / 3m /4 m / 300R)



For large type aluminum curtain rail (length: 2m / 3m /4 m / 500R)



Option



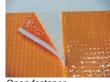
Open/close bracket with handle (large type). Weight: 5kgs per 500mm long(1pc).



Receiver (aluminum) - for single leaf



Fastener



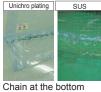
Open fastener



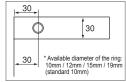
Hook-and-loop fastener (width 25mm & 50mm available)



Magnet (width 30mm)









Sheet for covering space underneath of the rail



Registry number in the Fire department FLAME RETARDANT Authorized by Japan Fire Retardant Association Water washing allowed / Need re-treatment of the flame-retardant in case of dry cleaning.

Label of the flame retardant

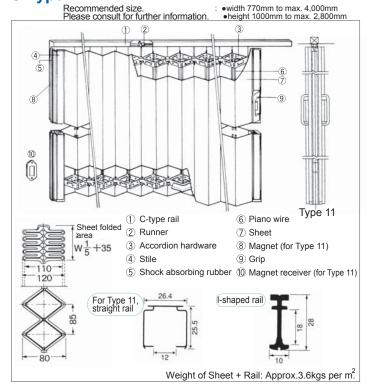
Hyper Curtain (with reinforcement)

Reinforce the thin curtain sheet with frameworks of accordion hardware. Possible to open/close smoothly with the effect of the hardware, furthermore, to get wider opening with the narrow sheet folded area when opened fully. Available size for production up to the width 20m (single leaf) / height 5m in case of Type 22.

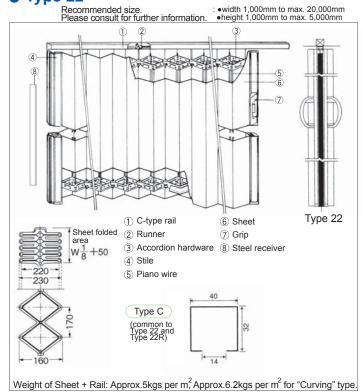


Standard, Clear

Type 11



Type 22



List of Property

● Property of Slit Curtain (P3~6)

Note: The followings are measured values only and not warranted values.

Type of sheet Topic of test		Flat Antistatic, Clear (2t.)	Flat Antistatic, Clear (3t.)	Flat Antistatic & flame retardant (2t.)	Flat Coldproof (2t.)	Flat Coldproof (3t.)	Remark
Hardness (JIS A hardnes	s gauge)	84	84	86	78	78	According to JIS A hardness gauge
Tensile	Vertical	350	555	375	318	430	A
strength (N)	Lateral	340	530	360	320 420		According to JISK6732
Tensile	Vertical	350	390	350	400	400	A
elongation (%)	Lateral	390	420	370	460	410	According to JISK6732
Tearing	Vertical	100	150	120	67	120	4 " 4 " " 110140==00
strength (N)	Lateral	105	160	120	72	123	According to JISK6732
Light penetra	ation (%)	90	88	88	87	87	According to JISK7105
Surface resis	stibility (Ω)	1.3×10¹	1.8×10 ¹²	1.3×10¹²	2.5×10 ¹¹	2.4×10 ¹¹	4 " 4 " 1101/0044
Cubic resistibility (Ω•cm)		4.0×10¹	3.4×10 ¹²	1.3×10 ¹²	5.2×10 ¹¹	5.4×10 ¹¹	According to JISK6911
Brittle temperature (°C)		- 35	- 40	-28	- 65	- 65	According to JISK7201
Environment temperature at site		Standard temperature	Standard temperature	Standard temperature	5℃~-45℃		

● Property of Hyper Accordion Sheet (P7~10) Note: The followings are measured values only and not warranted values. The followings are values for the part of sheet plate only and do not involve the part of recess

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Type of sheet Topic of test		Antistatic, Clear	Antistatic & insectproof, Orange Antistatic & flame Coldproof		Coldproof	Optron	Remark		
Hardness (JIS A hardnes	s gauge)	94	94	94	88	94			
Tensile	Vertical	330	330	320	280	330	According to HOKC700		
strength (N)	Lateral	340	340	330	260	340	According to JISK6732		
Tensile	Vertical	320	320	310	350	320	According to HOKC700		
elongation (%)	Lateral	330	330	330	380	330	According to JISK6732		
Tearing	Vertical	105	105	100	80	105			
strength (N)	Lateral	105	110	110	85	110	According to JISK6732		
Light penetra	tion (%)	92	64	90	92	41	According to JISK7105		
Surface resis	tibility (Ω)	1,3×10 ¹²	2,4×10 ¹²	1,0×10 ¹²	9.0×10 ¹¹	2.4×10 ¹²	According to JISK6911		
Cubic resistibility (Ω•cm)		1,4×10 ¹²	2,2×10 ¹²	2.2×10 ¹²	7.7×10 ¹²	2.6×10 ¹²	According to JISK6911		
Brittle temperature (°C)		- 40	-40	- 28	- 46	-40	According to JISK7201		
Environment temperature at site		Standard temperature	Standard temperature	Standard temperature	-10℃~+10℃	Standard temperature			

● Property of Hyper Curtain (indoor use only) (P11~12)

Note: The followings are measured values only and not warranted values.

Type of sheet Topic of test		Light green (0.3t.)	Light blue (0.5t.)	Remark		
Tensile	Vertical	80	120	According to JISK6732		
strength (N)	Lateral	75 110		According to JISK0732		
Tensile	Vertical	300	330	According to JISK6732		
elongation (%)	Lateral	330	320	According to JISK0732		
Modulus 100%	Vertical	35	45	A		
(N)	Lateral	30	40	According to JISK6732		
Tearing	Vertical	23	28	According to JISK6732		
strength (N)	Lateral	23	30	According to JISK0732		
Coldproo	f (°C)	-22	-25	ASTM D-1593		
Surface resistibility (Ω)		1.2×10 ¹¹	1.3×10 ¹²	According to JISK6911		
Cubic resistibility (Ω•cm)		5.6×10 ¹¹	5.5×10 ¹¹	According to JISK7201		
Flame reta	rdant	Conformed	Conformed	The fire law enforcement rule article 4 section 3		

		,					
Type Topic of test	e of sheet	Heat proof (0.3t.)	Remark				
Hardne	ss	90					
Tensile	Vertical	92	A				
strength (N)	Lateral	86	According to JISK6732				
Tensile	Vertical	300	A				
elongation (%)	Lateral	350	According to JISK6732				
Tearing	Vertical	22					
strength (N)	Lateral	20	According to JISK6732				
Heat deforma		4.5	120°C				
Brittle temper	ature (°C)	-18	According to JISK7201				
Flame reta	rdant	Conformed	The fire law enforcement rule article 4 section 3				

● Property of Hyper Curtain with thread (indoor use only) (P11~12)

Note: The followings are measured values only and not warranted values

_					-				values offig and not warranted values.			
Type of sheet Topic of test		Clear 0.3mm(t.) / 1cm sq.	Clear 0.3mm(t.) / 2cm sq.	Clear 0.55mm(t.) / 1cm sq.	Clear 0.55mm(t.) / 2cm sq.	Clear 0.42mm(t.) / 5mm sq.	Flame retardant Clear0.55mm(t.) / 1cm sq.	0		Antistatic & flame retardant Clear 0.25mm(t.) / 1.5cm sq.	Antistatic & flame retardant Clear 0.55mm(t.) / 1cm sq.	
Tensile	Vertical	420	100	390	120	530	390	410	120	170	390	
strength (N)) Lateral	390	110	360	130	520	360	400	120	170	360	
Tensile	Vertical	20	16	22	13	18	22	20	25	15	22	
elongation (%) Lateral	17	17	22	17	17	22	18	25	20	22	
Tearing	Vertical	70	50	150	50	120	150	90	68	35	150	
strength (N) Lateral	120	60	130	60	130	130	90	68	50	130	

Other products being available



Zipper Shutter Manual handling sheet shutter, for indoor use only



Vinyl Booth •Clean Booth

Partition with no spoiling of its outside view even if various machines and materials stored inside.

Further details are provided on request.



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- Due to the properties of printing ink, the color of the product may differ from the actual color.
- The specifications are subject to change without notice for improvements.