

Slit curtain

For the backyard of food facilities and factories.

Hyper accordion sheet (indoor use only)

For an indoor partition.



P3~6 P7~10

1

Hyper curtain (indoor use only)

A thin sheet with high cost performance.

Hyper curtain with reinforcement

Air-tightness is enhanced with 2 sheets.



P11~12 P13

Slit curtain

Insect proof Dust proof
It minimizes entering an object
from the outside.



Antistatic & Insect-resistant, Orange

User comes first.

The Slit Curtain is a strip-shaped PVC vinyl curtain. The greatest features of the strip-shaped sheet are smooth opening/closing and free access from any place. Creating a sanitary environment is possible with the vinyl sheets.

For maintaining comfortable indoor environment.

The Slit Curtain enables person goes in and out quickly between sheets so the air conditioning effect can be enhanced. A constant environment can be kept inside the room.

The clear sheet can achieve the high daylighting properties.

Various types of sheets are available to meet customer's needs. A sheet having high transparency can provide excellent lighting property. It can light up a room such as a workspace etc.

Flame retardant effect

The flame-retardant sheet of slit curtain meets the fire-retardant product certification standard of the Japan Fire Retardant Association.

Test No.:AO 010246∼8 Registration No.:E-¹³-40520

The sheet with *mark can be safely used partitioning in a factory where requires the frame retardant effect.



Registration No. in the Fire Department.

FLAME RETARDANT

Authorized by the Japan Fire Retardant Association Washable with water, but the flame-proof retreatment is necessary.



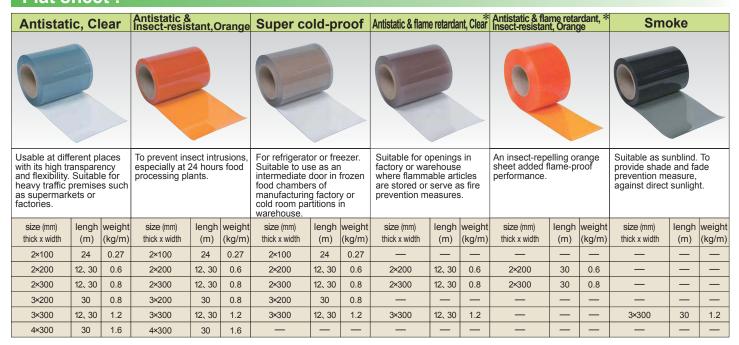
Antistatic, Clear



Super Cold-proof

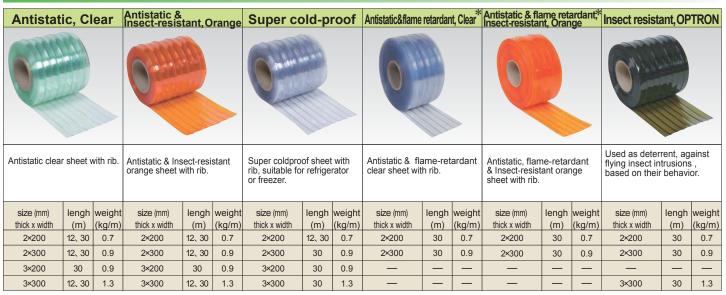
Variety of sheet

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.



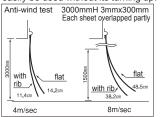
For partition (wide sheet)

Antistatic, CI	ear	Antistatic & Insect-re	sistant	Antistatic & flame retardant		
size	lengh	size	lengh	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	

**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

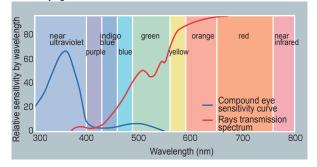
To prevent rain or wind come into indoor by strengthening air tightness with the Slit Curtain's own weight by its thickness and with the overlap of each sheet. Even when wind is rather strong, the Slit Curtain can each be used without its turning and easily be used without its turning up



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

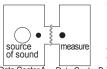
Anti-insect effect

Insect resistant 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 .

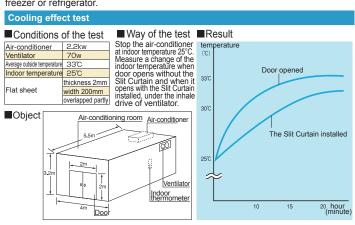


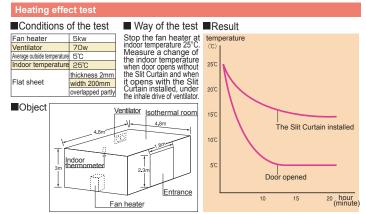
- ★The noise level drops to 16 db (average) by installation of the Slit Curtain. Especially, it gains larger effects at the higher hertz area.
- Sheet: 3mm x 300mm
- Overlapped partly
 Clear opening: 2.0m(W) x 2.5m(H) Data Center A Data Center B

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

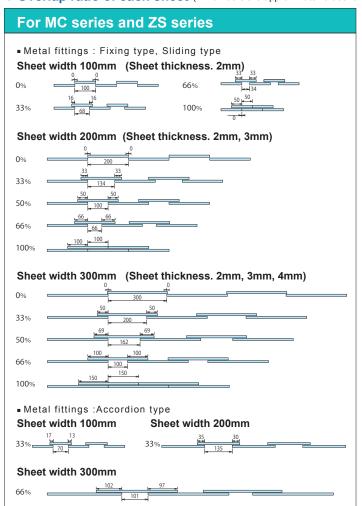
Air-conditioning effect

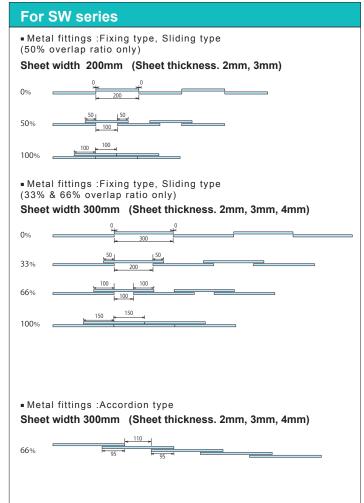
Air-conditioning effect is increased by a partition placed with the Slit Curtain inside of room. It can gain the same effect at controlling air-condition inside of room and freezer or refrigerator.





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



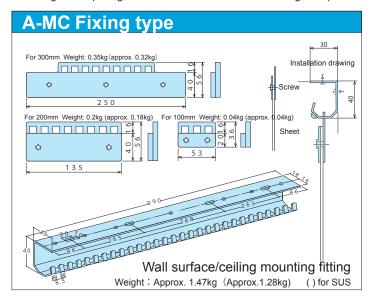


Types of metal fittings

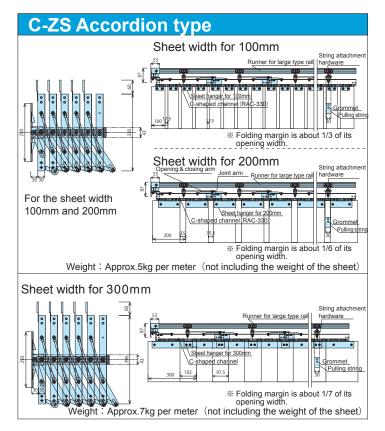
A metal fitting can be chosen according to a site requirement.

MC series · ZS series

MC series and ZS series are excellent in construction efficiency. A metal fitting according to the opening width can be selected from a wide range of lap ratio.

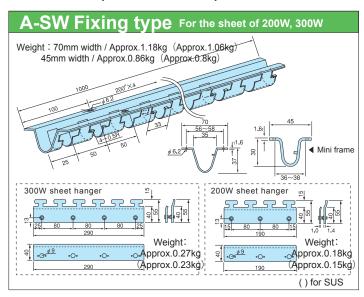


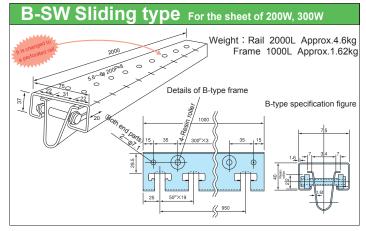
B-ZS Sliding type Ceiling bracket Ceiling bracket @500mm or less 43 Runner for large type rail Large type rail Stopper for large type rail String attachment hardware -shaped chann /C-shaped channel Sheet hanger Sheet Grommet Pulling string Pulling string Weight: Approx.2.8kg per meter (not including the weight of the sheet)

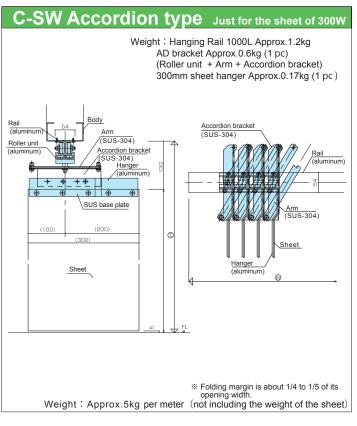


SW series

SW series with fittings having a strong durability. It is suitable for a place where there is heavy traffic such as a factory or a warehouse.







Hyper accordion sheet

(for indoor use only)

Stretching function of the sheet can produce a beautiful interior space.



Antistatic, Clear

Hyper Accordion Sheet is minimized the sheet joining part. The drastic reduction of dust and wind in a room can be achieved. Its thick sheet having excellent durability.

It can be smoothly opened/closed with the same feeling as that of a sliding door.

The folding margin when it is fully opened is about 1/10 of its opening width (250W-type) and small, so it can secure a large opening. The sheet can be nicely folded without impairing its beautiful appearance.

Flame retardant effect

Test No.:AO 010249

Registration No.:E-13-40520

The sheet with *mark can be safely used partitioning in a factory where requires the frame retardant effect.







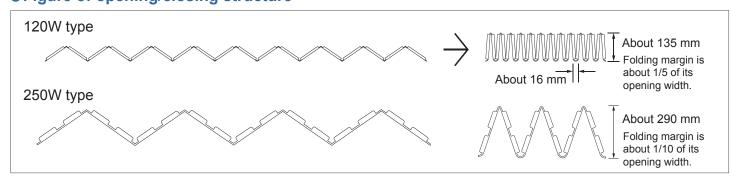


Antistatic, Clear

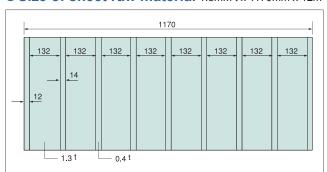
Variety of sheet



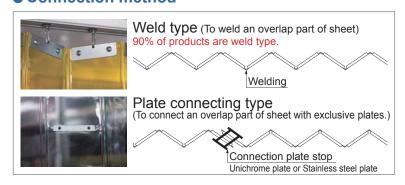
• Figure of opening/closing structure



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



Connection method

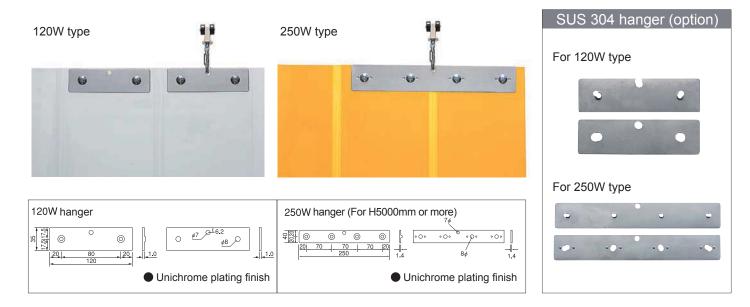




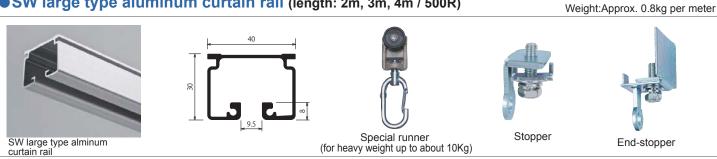


Insect-resistant OPTRON

Hanger



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



●SW large type stainless steel curtain rail (length: 2m, 3m, 4m / 530R)



Please make sure to use a single bracket or a ceiling bracket when a SUS curtain rail is used.



Antistatic & flame retardant, Clear



Antistatic & Insect-resistant, Orange

Option



Large type aluminum curved rail (R. 500mm)



Large type single bracket



Large type ceiling bracket



Chain lock with SUS hook Dead bolt



Sheet for the bottom gap of the rail (Antistatic & Flame-retardant type. 0.5t yarn-incorporated.)



Sheet for the bottom gap of the rail (Insect-resistant type. 0.55t yarn-incorporated)



Velcro tape for single leaf (50mm width)



Velcro tape for double leaves (50mm width)



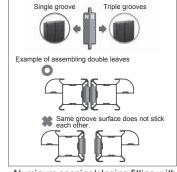
Aluminum opening/closing fitting with a handle for single leaf



Aluminum opening/closing fitting with a handle for double leaves



Aluminum bracket for single leaf



Aluminum opening/closing fitting with a handle for double leaves (Detailed drawing of the magnet surface)

Note

- -The calculation method of the folding margin is the number of runner x 20mm +30mm (Stopper part). (Approximate measurements for 120W type is about 1/5 of its opening width. For 250W type is about 1/10 of its opening width.) Weight: About 2.5kg/m2 including a sheet and a rail.
- -Aluminum opening/closing fitting with a handle for single leaf is about 6kg/set, 12kg/set for double leaves. -Please feel free to contact us for other specifications.

Hyper Curtain indoor (for indoor use only)

It keeps the inside of the room bright. For a partition of air conditioning.

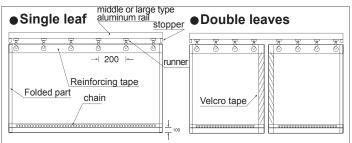


Standard, Clear

The Hyper Curtain makes the best use of characteristics of sheet with the wide variety of rail parts. It can provides rich lineups of colors and types such as the yarn-incorporated type having increased durability.

To realize energy saving by partitioning a wide room with the Hyper Curtain according to the movement of a person and sending a wind to a space only required. At the same time, same level of daylighting environment inside room can be achieved and it has good cost performance. It is recommended for the user who wants to minimize the induction cost while caring for the indoor environment.

Specification reference drawing



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

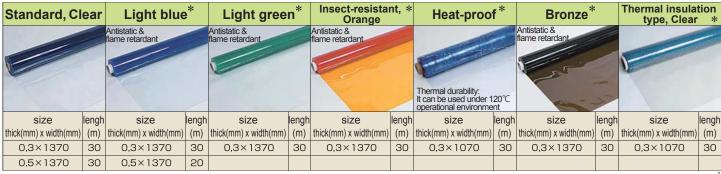
• Flame retardant effect

Test No.: It is different per product. Registration No.:E-13-40520

The sheet with * mark can be safely used partitioning in a factory where requires the frame retardant effect.



Sheet with no thread



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

Sheet with thread

Nonflammable Standard, Clear			Flame retarda & Antistatic cl				Cold-proof & Flame retardant, 0		Thermal insula 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)
0.27×2030	30	1cm square 0.3×2030	50	5mm square 0.42×2030	50	1cm square 0,5×2030	30	1cm square 0,55×2030	30	2cm square 0,53×2050	30	2cm square 0.3×1070	50
		2cm square 0,3×2030	50	1cm square 0,55 × 2030	30	2cm square 0,5×2030	30	1.5cm square 0.25 × 2030	50	2cm square 0,3×2050	50		
				2cm square0,55×2030	30	1cm square 0.3×2030	50						

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)

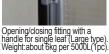


For large type aluminum curtain rail (length: 2m / 3m /4 m / 500R)



Option



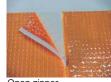




Aluminum bracket for single leaf



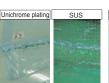
Zipper



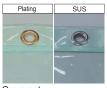
Open zipper



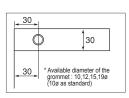
Velcro tape(Width 25mm & 50mm are available)



Chain-containing lower part Weight: about 0.15kg per meter.



Grommet (standard specification)



Sheet for the bottom gap of the rail



Flameproof label

Hyper Curtain (with reinforcement)

The accordion metal fitting with the framework structure can provide the thin sheet with strength. It can be opened/closed smoothly due to the effect of the metal fitting. The folded part is narrow in fully opening it and capable of securing a large opening. The maximum manufacturing size for Type 22 is up to the width of 20m (for double leaves) and the height of 4m.



Standard, Clear

Type 22

Available size (Further discussion needed) : width 1,000mm to max. 20,000mm height 1,000mm to max. 4,000mm

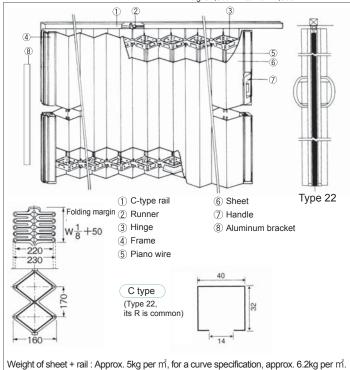


Table of material properties

● Slit Curtain (P3~6)

Note: The following figures are measured values, not the values for guaranteeing.

Test items	e of sheet	Flat Antistatic, Clear (2t.)	Flat Antistatic, Clear (3t.)	Flat Antistatic & flame retardant (2t.)	Flat Super Cold-proof (2t.)	Flat Super Cold-proof (3t.)	Measurement methods
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 di t - 1101/0722
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	
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)	1.3×10 ¹²	1.8×10 ¹²	1.3×10 ¹²	2.5×10 ¹¹	2.4×10 ¹¹	A 11 / 1101/0044
Cubic resistib	ility (Ω•cm)	4.0×10 ¹²	3.4×10¹²	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℃		

■ Hyper Accordion Sheet (P7~10)

Note: The following figures are measured values, not the values for guaranteeing.

The followings are values for the part of sheet plate only and do not involve the part of recess.

			The followings are values for the part of sheet plate only and do not involve the part of recess.							
Type of sheet Test items		Antistatic, Clear	Antistatic & insectproof, Orange	Antistatic & flame retardant	Coldproof, Clear	Inscect resistant, Optron	Measurement methods			
Hardness (JIS A hardness gauge)		94	94	94	88	94				
Tensile	Vertical	330	330	320	280	330	A			
strength (N)	Lateral	340	340	330	260	340	According to JISK6732			
Tensile	Vertical	320	320	310	350	320	A			
elongation (%)	Lateral	330	330	330	380	330	According to JISK6732			
Tearing	Vertical	105	105	100	80	105	A /			
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)		-4 0	- 40	– 28 – 46		- 40	According to JISK7201			
Environment temperature at site		Standard temperature	Standard temperature	Standard temperature	-10°C~+10°C	Standard temperature				

■ Hyper Curtain (indoor use only) (P11~12)

Type of sheet Measurement methods Light green (0.3t.) Light blue (0.5t.) Test items Vertical 80 120 Tensile According to JISK6732 strength (N) 75 110 Lateral 300 330 Vertical Tensile According to JISK6732 elongation (%) 330 320 Lateral 35 45 Vertical Modulus 100% According to JISK6732 (N) Lateral 30 40 23 28 Vertical Tearing strength (N) According to JISK6732 23 30 Lateral -22 -25 ASTM D-1593 Coldproof (°C) 1.3×10¹² Surface resistibility (Ω) 1.2×10¹¹ According to JISK6911 Cubic resistibility (Ω·cm) 5.6×10¹¹ 5.5×10¹¹ According to JISK7201 The fire law enforcement Flame retardant Conformed Conformed rule article 4 section 3

Note: The following figures are measured values, not the values for guaranteeing.

Type Topic of test	of sheet	Heat proof (0.3t.)	Measurement methods
Hardness	S	82	
Tensile	Vertical	31	According to JISK6732
strength (N)	Lateral	25	According to distro732
Tensile	Vertical	297	According to JISK6732
elongation (%)	Lateral	339	According to dicitor 52
Tearing	Vertical	27	According to JISK6732
strength (N)	Lateral	24	According to distro732
Heat deformat	ion rate	8.7	120°C
Flame retard	dant	Conformed	The fire law enforcement rule article 4 section 3

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

Note: The following figures are measured values, not the values for guaranteeing.

								·····g·				
Typ Test items	pe of sheet	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.	Cold-proof & flame retardant clear 0.55mm(t.) / 1cm sq.	Flame retardant & antistatic clear 0.5mm(t.) / 1cm sq.		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	196	410	120	170	390	
strength (N	lateral	390	110	360	130	520	196	400	130	170	360	
Tensile	Vertical	20	16	22	13	18	18	20	28	15	22	
elongation (^{%)} Lateral	17	17	22	17	17	24	18	25	20	22	
Tearing	Vertical	70	50	150	50	120	186	90	41	35	150	
strength (N)	N) Lateral	120	60	130	60	130	186	100	47	50	130	

Introduction of other products



Zipper Shutter

Manual type sheet shutter for indoor use only.



It can be partitioned without impairing its appearance even when various machines are installed inside the booth. Please contact us for more details.



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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.