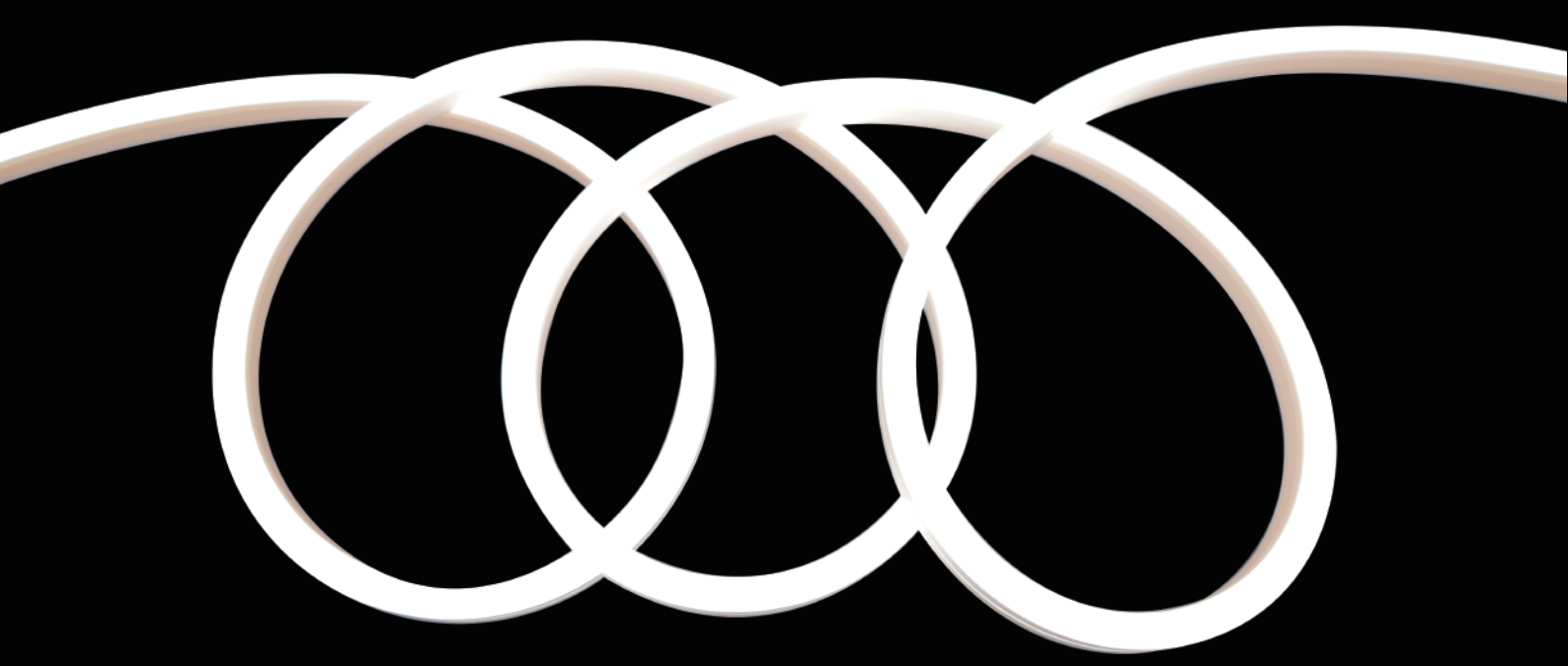




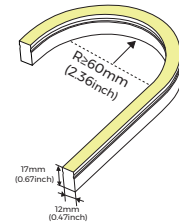
Neon Specification

NMS1217



【Features】

- Light source: high luminous efficiency LED lamp beads, LM80 test certification;
- Process material: high light transmittance, high purity silica gel material, IP67 protection level;
- Optical design: unique optical light distribution structure design, uniform light emission on the surface without shadows;
- Appearance design: good flexibility, simple shape, exquisite and unique;
- Product certification: UL, CE, ROHS, UACK,CB;
- Environmental characteristics: salt solution resistance, acid and alkali corrosion resistance, flame retardant resistance, UV resistance;
- Working/storage temperature: Ta: -25~55°C / 0°C~60°C;
- Product application: signboard lighting, outdoor/internal decorative lighting, architectural contour application;
- White 5 year warranty, G/B/CCT/RGBW with 3 years warranty or working life =36000H,whichever comes first;48V/SPI/DMX512 with warranty 2 years or working life=20000H,whichever comes first;



Note: The bending radius of Symphony is R=60mm(2.6inch)

【Basic Parameters】

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
NMS1217- XXXX24 CXN050XCXXX -Plus	2300K	>80/90	24V	0.4 (0.12A/ft)	9.6 (2.93W/ft)	10.6 (5.05W/ft)	510(155/ft)	5000mm (16.4ft) 10000mm (32.8ft)	6LED/50mm
	2700K						520(155/ft)		
	3000K						520(155/ft)		
	4000K						520(155/ft)		
	6000K	>80					460(140/ft)		
NMS1217- OX24 CXN050XCXXX- Plus	G 525-530nm	/		0.34 (0.1A/ft)	8 (2.44W/ft)	8.8 (2.68W/ft)	/		
	B 465-470nm								
NMS1217- ORGB24 CXN050XC0500-Plus	RGB	/		0.2 (0.06A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	/		7LED/83mm
	R 620-630nm								
	G 525-530nm								
	B 465-470nm								
NMS1217- ORGBXX24 CXN050XC0500-Plus	RGB-2300K	/	0.6 (0.18A/ft)	14.4 (4.39W/ft)	16 (4.88W/ft)	/	5000mm (16.4ft)	12LED/62.5mm	
	RGB-2700K								
	RGB-3000K								
	RGB-3500K								
	RGB-4000K								
	RGB-5000K								
NMS1217- XXXXX24 CXN050XC0500-Plus	2300-4000K	>80/90	0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	650(195/ft)		14LED/100mm	
	2700-6000K	>80							

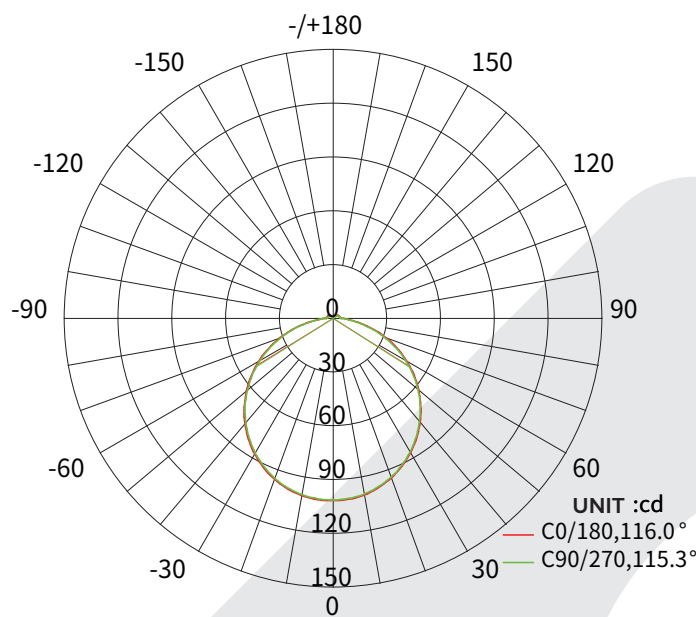
【Basic Parameters】

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark					
NMS1217- 9XXX48 CSN050CC5000-Plus(LP)	2300K	>90	48V	0.11 (0.03A/ft)	5.3 (1.62W/ft)	5.8 (1.77W/ft)	200(60/ft)	50000mm (164ft)	12LED/100mm					
	2700K						220(65/ft)							
	3000K						220(65/ft)							
	4000K						240(70/ft)							
NMS1217- 9XXX48 CSN050CC2000-Plus	2300K	>90					0.2 (0.06A/ft)	9.6 (2.93W/ft)		10.6 (3.23W/ft)	340(100/ft)	20000mm (65.6ft)		
	2700K										380(115/ft)			
	3000K										380(115/ft)			
	4000K										400(120/ft)			
NMS1217- 0RGB48 CSN050CC2000-Plus	RGB	/		/	/	/					20000mm (65.6ft)		24LED/125mm	
	R 620-630nm													
	G 525-530nm													
	B 465-470nm													
NMS1217- 0RGBXX48 CSN050CC2000-Plus	RGB-2300K	/					/	/		/		/		24LED/125mm
	RGB-2700K													
	RGB-3000K													
	RGB-3500K													
	RGB-4000K													
	RGB-5000K													
NMS1217- 9LWNW48 CSN050CC2000-Plus	2300~4000K	>90	340(100/ft)	24LED/62.5mm										
NMS1217- 0RGBX24 CDS025CC0500-Plus-EP(SPI)	RGB	/	24V	0.75 (0.23A/ft)	18 (5.49W/ft)	19.8 (6.04W/ft)	240(70/ft)	5000mm (16.4ft)	7LED/83mm IC:(UCS1603H)					
	R 620-630nm						70(20/ft)							
	G 525-530nm						150(45/ft)							
	B 465-470nm						30(10/ft)							
NMS1217- 8XXX24 CDS025CC0500 -Plus-EP(SPI)	2300K	>80					550(165/ft)							
	2700K									550(165/ft)				
	3000K									600(180/ft)				
	4000K									600(180/ft)				
NMS1217- 0RGBM24 CDS025CC 0500-Plus-EP(DMX512)	RGB	/					240(70/ft)		7LED/83mm IC:(UCS512B3)					
	R 620-630nm									70(20/ft)				
	G 525-530nm									150(45/ft)				
	B 465-470nm									30(10/ft)				
NMS1217- 8XXM24 CDS025CC 0500-Plus-EP(DMX512)	2300K	>80					550(165/ft)							
	2700K									550(165/ft)				
	3000K									600(180/ft)				
	4000K									600(180/ft)				

Note:

1. The above parameters are tested based on 1m/3.28ft standard products;
2. The luminous flux is allowed to have an error range of $\pm 10\%$;
3. The above parameters are typical values;

[Light Distribution]



AVERAGE BEAM ANGLE(50%):115.7 DEG

Light distribution

Flux out:223.5 lm

Height	Eavg,Emax	Angle:115.00deg	Diameter
1m	27.78,101.8lx		313.96cm
2m	6.946,25.44lx		627.93cm
3m	3.087,11.31lx		941.89cm
4m	1.736,6.360lx		1255.86cm
5m	1.111,4.070lx		1569.82cm
6m	0.7718,2.827lx		1883.79cm
7m	0.5670,2.077lx		2197.75cm
8m	0.4341,1.590lx		2511.71cm
9m	0.3430,1.256lx		2825.68cm
10m	0.2778,1.018lx		3139.64cm

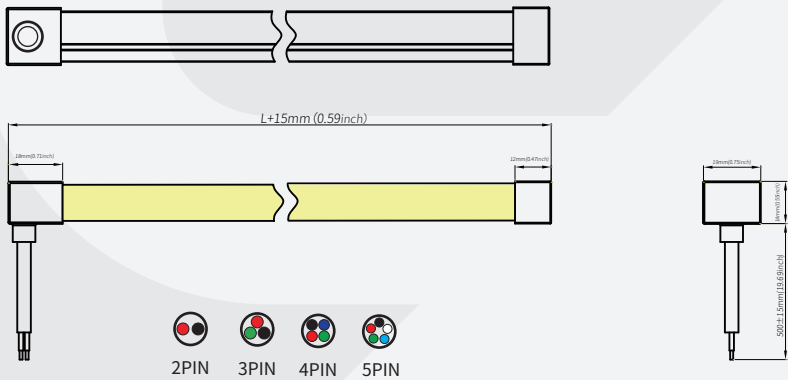
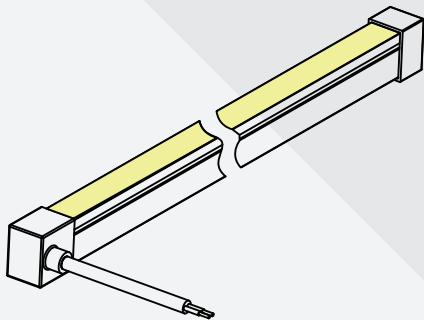
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Effective average illuminance

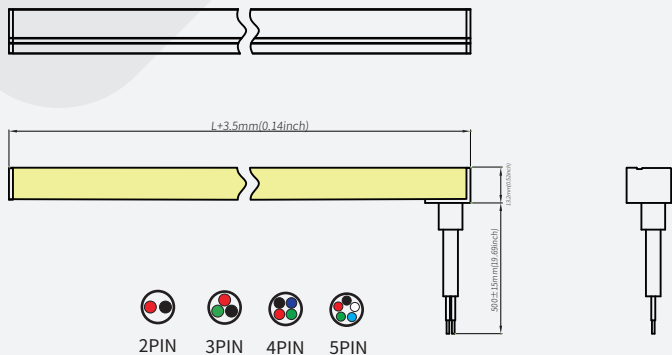
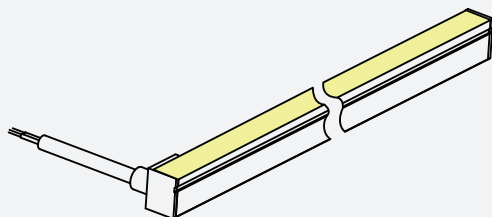
Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

[Product mechanical parameters]

• IP65 Glued cap- side outlet

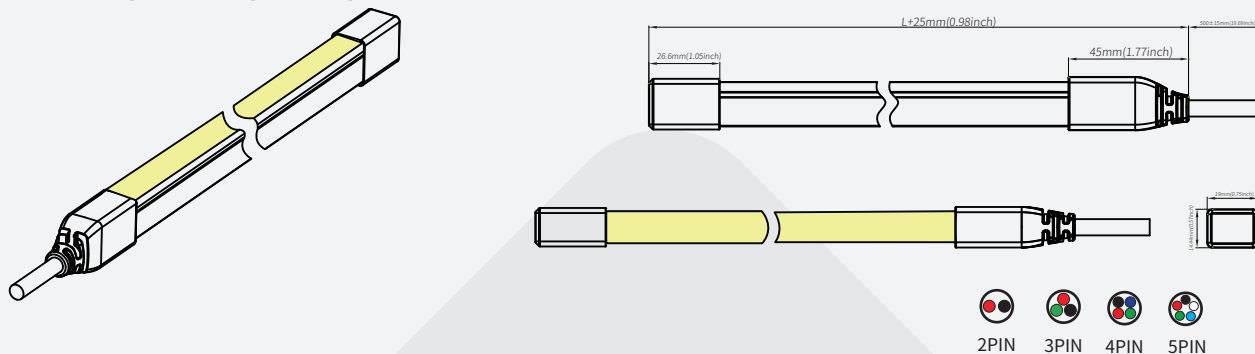


• IP67 No dark cap(NP/ENP)-side outlet

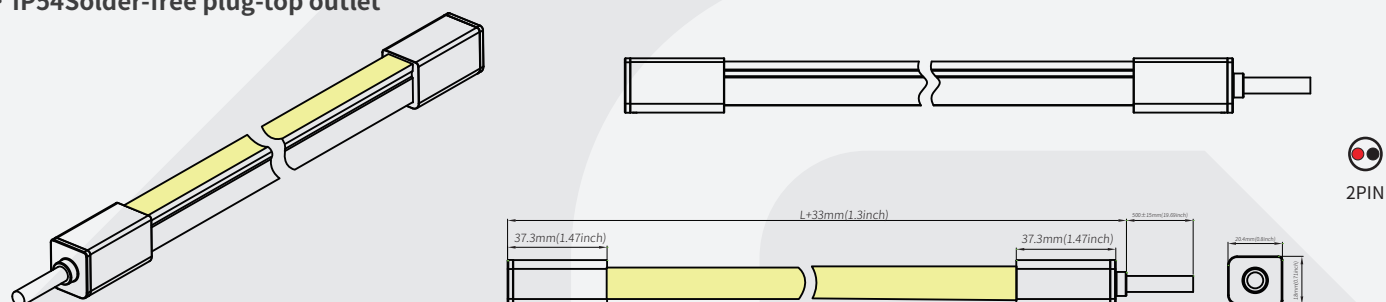


【Product mechanical parameters】

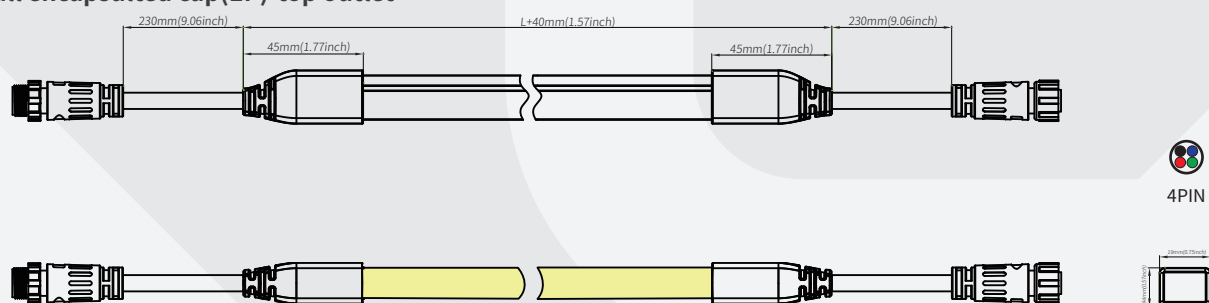
• IP67 Full encapsulated cap(EP)-top outlet



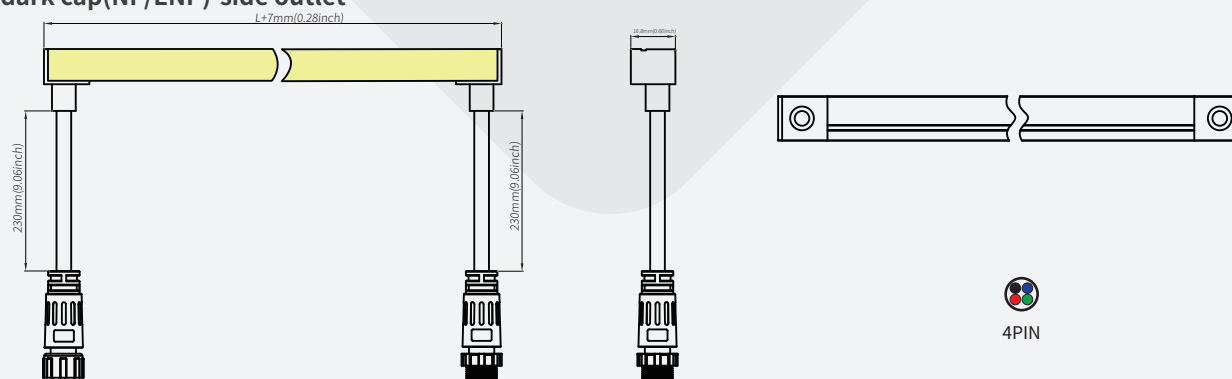
• IP54 Solder-free plug-top outlet



• IP67 Full encapsulated cap(EP)-top outlet



• IP67 No dark cap(NP/ENP)-side outlet



【Packaging Solutions】

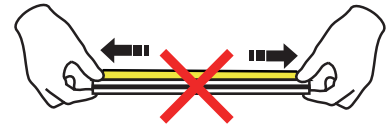
Model	Product size	Product Quantity/ box	Product Quantity/ case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size (m)
NMS1217-9XX48CSN050CC2000-Plus	L20000*12*17mm	20M*2	40M	4.68	9.36	11.23	0.345*0.345*0.33
NMS1217-9XX48CSN050CC5000-Plus(LP)	L50000*12*17mm	50M*1	50M	11.7	11.7	13.57	
NMS1217-ORGB48CSN050CC2000-Plus	L20000*12*17mm	20M*2	40M	4.68	9.36	11.23	
NMS1217-ORGBW48CSN050CC2000-Plus	L20000*12*17mm	20M*2	40M	4.68	9.36	11.23	
NMS1217-9SWW48CSN050CC2000-Plus	L20000*12*17mm	20M*2	40M	4.68	9.36	11.23	
NMS1217-XXXXX24CDS025CC0500-Plus-EP	L5000*12*17mm	5M*3	60M	1.17	14.04	15.59	0.41*0.41*0.26
NMS1217-XXXXX24CDS025CC0500-Plus-EP							

【Reliability test】

test item	Classification	Reference	Test method or condition
Safety test	Mechanical strength	IEC 60598-1; IEC 60598-2-21	The hammer spring Impact energy 0.7J
	IP	IEC 60598-1; IEC 60598-2-21	IP67
	Winding Test	IEC 60598-1; IEC 60598-2-21	φ150mm cylinder, 60N pull, winding 10 times at (-25°C ± 2°C), and 10 times after (-15°C ± 2°C, 16h).
	Cold Bend Test	IEC 60598-1; IEC 60598-2-21	wound on mandrel, low-temperature (-15°C ± 2°C, 16h), around the mandrel for two turns
	Cold Impact test	IEC 60598-1; IEC 60598-2-21	Low-temperature (-15°C ± 5°C, 16h), hammer falls from a height of 100mm.
	Insulation Resistance	IEC 60598-1; IEC 60598-2-21	≤ 2MΩ
	Electrical strength	IEC 60598-1; IEC 60598-2-21	500V
Mechanical reliability testing	Bending test	Colors	Each 200mm, bending up and down 100 times
	Bending test	Colors	Each 200mm, bending left and right 100 times
	Torsion test	Colors	Twist clockwise 5 times and then release, repeat 200 times
	Disassembly and assembly test	Colors	Repeat disassembly and assembly, 10 times
Environment Reliability testing	High temperature storing test	IEC 60068-2-2	80°C, 168h
	Low temperature storing test	IEC 60068-2-1	-40°C, 168h
	High temperature and Humidity impact	IEC 60068-2-78	60°C, 85%RH
	Salt Spray test	IEC 60068-2-11	5% salt solution concentration, 24h
	IK	IEC 62262	5 times of impact on each exposed surface
	Lifetime aging test	Colors	35°C, 6000h
	switch test	Colors	10s On, 10s Off, 10000 times

【Precautions】

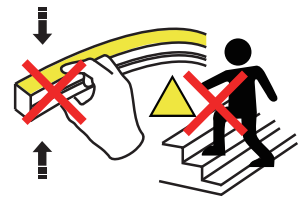
- Please use an isolated power supply to drive the LED light bar, and the ripple of the constant voltage source is less than 5%. Do not use resistance-capacitance step-down, non-isolated power supplies to drive the LED light bar.
- In actual applications, the power supply should reserve 20% of the margin (it is recommended to use only 80% of the power) to ensure sufficient voltage to drive the product.
- Please operate carefully, do not touch the AC power terminal when the power is on to prevent electric shock.
- Pay attention to the positive and negative poles of the power cord, and do not connect it wrongly. Whether the voltage of the power supply and the product are the same, so as to avoid damage to the product.
- During the installation process, please avoid scratching, twisting and irregular bending of the product, otherwise it may cause irreparable damage to the product.
- In order to ensure the life and reliability of the light strip, please do not bend it in an arc with a radius of less than 60mm. A too small bending radius will damage the product itself.
- If the actual application length exceeds the specified use length, it will cause the lamp belt to overload and heat, and the brightness is uneven.
- In order to prevent your eyes from being hurt, try to avoid staring at the light-emitting surface of the light bar for a long time.
- Non-professionals are prohibited from installing, disassembling and repairing the product.
- It is strictly forbidden to use any acidic or alkaline adhesives to fix products (including but not limited to glass glue, etc.).
- IP67 protection products are not suitable for swimming pool underwater.
- Products of different sizes and specifications under the same color temperature value due to structural differences, the final color of the product is slightly deviated, and it must be confirmed before use.
- When the IP67 protection product is installed and applied, the waterproof level needs to be downgraded after self-processing and cutting.
- Please use professional cutting tools when cutting.
- Engineering packaging neon light belt (20~50m), please use pay-off rack during construction to avoid damage to the product caused by pulling force.



No stretching



No distortion



No trampling