



## 纳米手用机用膜 Nano Hand/Machine Stretch Film

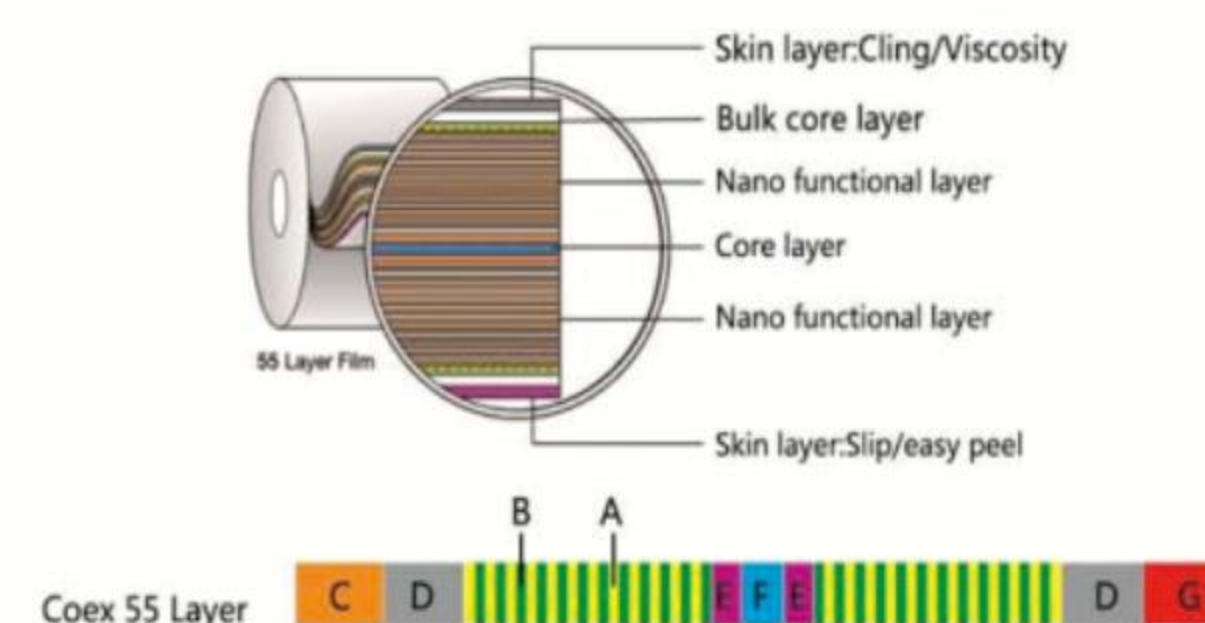
**描述:** 具有高弹性、高粘性、强韧性、透明度和光泽度, 减少约50%的成本。  
在抗穿刺和抗撕裂方面表现更稳定, 低温环境(零下20度)依然保持性能。

**Description:** It has high elasticity, high viscosity, strong toughness, transparency, and glossiness, reducing costs by about 50%. Nano Film exhibits more stability in puncture and tear resistance, while maintaining performance in low temperature environments (minus 20 degrees Celsius).

**应用范围:** 五金、矿产、化工、医药、食品、机械等多种产品的整集包装上  
**Application:** Integrated packaging of various products such as hardware, minerals, chemicals, pharmaceuticals, food, machinery, etc

**产品特性:** 可防潮、防尘、减少人工, 有效提高工作效率, 能保护产品, 降低成本  
**Characteristics:** It can prevent moisture, dust, reduce labor, effectively improve work efficiency, protect products, and reduce costs

55层纳米缠绕膜  
55-layer Nano Stretch Film



## 技术指标 Technical Data Sheet

### 手用 Hand-Use

外观质量 Appearance Quality	合格 Qualified	符合规定 Compliance		
宽度偏差, mm Width deviation, mm	±6	498		
厚度偏差, mm Thickness Deviation, mm	±0.001	0.012		
单位面积重量偏差, % Weight per unit area deviation, %	±15	-3.5		
拉断力 (纵横向) (N/15mm) Breaking force (vertical and horizontal) (N/15mm)	MD ≥ 7.0 TD ≥ 3.5	MD	9.6	TD 4.1
断裂伸长率 (纵横向) % Elongation at break (longitudinal and transverse) %	MD ≥ 300 TD ≥ 400	MD	556	TD 789
永久变形, % permanent deformation, %	< 30	22		
弹性恢复, % Elasticity Recovery, %	≥ 70	78		
拉力保持, % Tension hold, %	≥ 75	78		
F力值, N F force value, N	≥ 3.0	3.2		
抗穿刺 Puncture resistant	破裂力 (N) Rupture force, (N)	≥ 10.0 21.9		
	延伸量mm Extension, mm	≥ 55.0 98.0		

### 机用 Machine-Use

外观质量 Appearance Quality	合格 Qualified	符合规定 Compliance		
宽度偏差, mm Width deviation, mm	±6	249		
厚度偏差, mm Thickness Deviation, mm	±0.001	0.015		
单位面积重量偏差, % Weight per unit area deviation, %	±15	1.2		
拉断力 (纵横向) (N/15mm) Breaking force (vertical and horizontal) (N/15mm)	MD ≥ 11 TD ≥ 8	MD	13.1	TD 8.7
断裂伸长率 (纵横向) % Elongation at break (longitudinal and transverse) %	MD ≥ 500 TD ≥ 600	MD	610	TD 831
永久变形, % permanent deformation, %	< 55	34		
弹性恢复, % Elasticity Recovery, %	≥ 45	66		
拉力保持, % Tension hold, %	≥ 70	79		
F力值, N F force value, N	≥ 4.0	4.5		
抗穿刺 Puncture resistant	破裂力 (N) Rupture force, (N)	≥ 20.0 23.3		
	延伸量mm Extension, mm	≥ 80.0 97.0		

## 应用实例 Application





## 打孔透气膜 Penetrated Breathable Stretch Film ▶▶▶

**描述:** 表面有渔网状的呼吸孔, 能加快空气流通, 重量轻、弹性好, 透气率达80%, 包装成本低  
 Description: The surface has fishing mesh breathing holes, which can accelerate air circulation. It is light, has good elasticity, and has a breathability rate of 80%.

**应用范围:** 食品饮料、医药制品、农产品市场、花卉园艺市场等  
 Application: Food and beverage, pharmaceutical products, agricultural product markets, flower and horticulture markets, etc

**产品特性:** 强化透气, 减少产品变质或包装损坏  
 Characteristics: Strengthen breathability and reduce product deterioration or packaging damage



## 技术指标 Technical Data Sheet ▶▶▶

### 手用 Hand-Use

长度 Length	宽度 Width	平均厚度 Average Thickness	延展度 Prestretch	断裂延伸率 Elongation at break	拉力 Tensile stress at break	每行孔数 Number of holes per row	每米重量 Weight per meter	每卷重量 Weight per roll
500m	420mm	8um	30%	35%	30kg	13	2.25g	1.4kg

### 机用 Machine-Use

长度 Length	宽度 Width	平均厚度 Average Thickness	延展度 Prestretch	断裂延伸率 Elongation at break	拉力 Tensile stress at break	每行孔数 Number of holes per row	每米重量 Weight per meter	每卷重量 Weight per roll
1420m	500mm	23um	250%	250%	26kg	13	7.8g	11kg

## 应用实例 Application ▶▶▶





## 迷你定制膜 Mini Customized Stretch Film ▶▶▶

**描述:** 由大卷缠绕膜分切复卷后做成的小管芯缠绕膜, 体积小, 轻便, 可以一个人单独手握操作。

Description: The mini stretch film is made by slitting the jumbo roll, which is small and lightweight, and can be held and operated by hand.

**应用范围:** 用于电线、管材、电子仪表、仪器等的捆扎固定。

Application: Used for bundling and fixing wires, pipes, electronic instruments, instruments, etc

**产品特性:** 宽度小, 重量轻, 便携, 高拉伸性, 左右手方向可定制

Characteristics: Small width, light weight, portable, high stretchability, customizable left and right hand orientation



## 彩色印刷膜 Colorful Printing Stretch Film ▶▶▶

**描述:** 在生产缠绕膜时加入色母料制作出不同颜色的缠绕膜外观美观、具有强缠绕力和高回缩性, 容易区分物品、遮盖、遮光效果好

Description: Adding color masterbatch Beautiful appearance, strong wrapping force and high retraction, easy to distinguish items, good covering and shading effect

**应用范围:** 外贸出口, 制瓶制罐、造纸、五金电器、塑胶、化工、建材、农产品、食品等行业。

Application: Foreign trade export, bottle and can making, paper making, hardware and electrical appliances, plastics, chemical, building materials, agricultural products, food and other industries.

**产品特性:** 拉伸强度、抗撕裂强度, 预拉伸倍率400%, 颜色可定制。

Characteristics: Strong tensile strength and tear resistance, with a pre stretching ratio of 400%, and customizable colors.





## PVC流延保鲜膜 PVC Cast Cling Film ▶▶▶

**描述:** 具有适度的透氧性和透湿度,调节被保鲜品周围的氧气和水分的含量,阻隔灰尘,延长食品的保鲜期  
 Description: It has moderate oxygen and humidity permeability, regulates the content of oxygen and water around the food being preserved, blocks dust, and extends the shelf life of the food

### 应用实例 Application▶▶▶



## PVC吹膜保鲜膜 PVC Blown Cling Film ▶▶▶

**描述:** 具有适度的透氧性和透湿度,调节被保鲜品周围的氧气和水分的含量,阻隔灰尘,延长食品的保鲜期  
 Description: It has moderate oxygen and humidity permeability, regulates the content of oxygen and water around the food being preserved, blocks dust, and extends the shelf life of the food

### Summary of Results:

No.	Test Item	Test Method	Result	
1	Gas Transmission Rate-Differential Pressure Method Tear Strength	ASTM D1434-82(2009) <sup>ε1</sup>	See result	
2	Tensile Modulus	ASTM D1004-13	MD	0.340 N
			C D	0.360 N
3	Tensile Strength	ASTM D882-12	MD	108 MPa
			C D	117 MPa
4	Elongation at Break	ASTM D882-12	MD	38.3 MPa
			C D	32.1 MPa
			MD	195 %
			C D	186 %
5	Water Vapor Transmission Rate	DIN 53122-1:2001	439 g/(m <sup>2</sup> ·d)	





## 冷缩膜 Stretch Hood Film ▶▶▶

**描述:** 全自动化包装, 与流水线无缝衔接, 可实现无托盘包装方式, 降低包装成本, 减量化包装, 减少废物源。全方位防护, 持久的夹持力和弹性, 包装安全稳固  
Description: Fully automated packaging, seamlessly connected to the assembly line. It can achieve palletless packaging, reduce packaging costs, and reduce packaging volume, reduce waste sources. Comprehensive protection, long-lasting clamping force and elasticity, safe and stable packaging

**应用范围:** 化工原料袋、食品饮料瓶等  
Application: Pallet packaging for chemical raw material bags, food and beverage bottles, etc

**产品特性:** 使用简便、全方位防护、节能环保  
Characteristics: Easy to use, comprehensive protection, energy conservation and environmental protection



## 覆顶膜 Pallet Cover Film ▶▶▶

**描述:** 托盘需要六面防潮防灰, 缠绕膜一般只能解决周边方向的缠绕。覆顶膜解决了顶部的包裹痛点。  
Description: The pallet requires six sides to prevent moisture and dust, and the stretch film can generally only solve the wrapping in the surrounding direction. The pallet film solves the pain point of wrapping at the top.

**应用范围:** 用于保护整个托盘内容物  
Application: Used to protect the entire pallet contents.

**产品特性:** 保护托盘的顶部, 防止潮湿, 灰尘, 污垢和/或油脂。  
Characteristics: Protect the top of the tray from moisture, dust, dirt and/or grease





## 牧草青贮膜 Silage Film ▶▶▶

**描述:** 可以缓解秋冬季节饲料短缺的问题。储存方便, 取料方便, 不受季节、鞣制、降雨、地下水的影响, 可露天堆放, 便于运输和商品化, 提高了饲料的利用率  
Description: It can alleviate the problem of feed shortage in autumn and winter seasons. Convenient storage and material retrieval, unaffected by seasons, tanning, rainfall, and groundwater. It can be stacked outdoors for easy transportation and commercialization, improving the utilization rate of feed

**应用范围:** 适用于养殖业、畜牧业各种农产品存储饲料包装  
Application: Suitable for storage and feed packaging of various agricultural products in aquaculture and animal husbandry

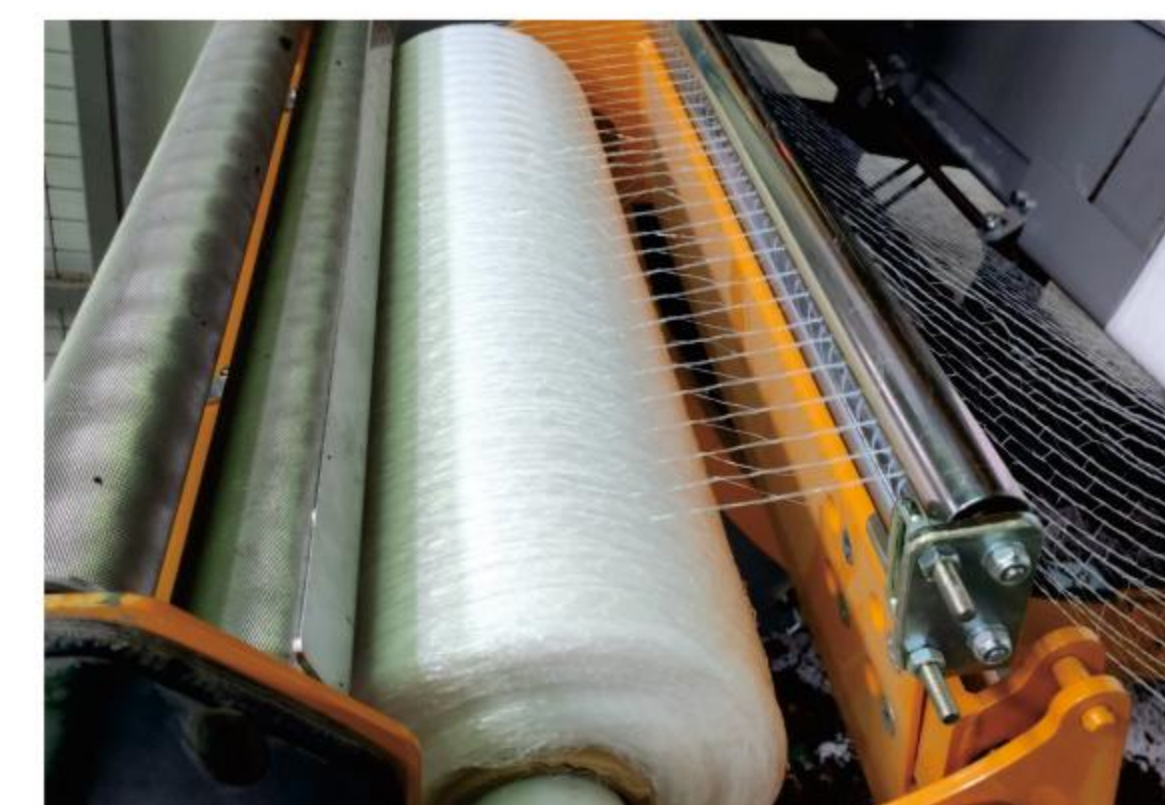
**产品特性:** 无毛边、无刮痕、有韧性、可定制规格  
Characteristics: No burrs, scratches, toughness, and customizable specifications



## 捆草缠绕网 Pallet Net ▶▶▶

**描述:** 托盘缠绕网使用于托盘打包固定具有固定透气、便于运输的特点。  
Description: The Bundled straw net used in the packing and fixing of the pallet has the characteristics of being fixed, breathable and easy to transport.

## 应用实例 Application ▶▶



## 其他包装材料 Other packaging materials ▶▶▶

### ●打包机器 (Packaging machine)



### ●胶带,打包带等 (Sellotape, Packing tape and more)



## 为什么? WHY?



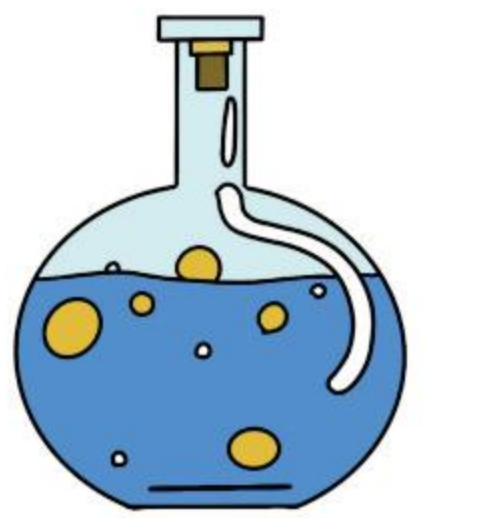
### 为什么坚持自有土地、自建厂房生产? Why insist on own land, self-built factory?

没有高额的租金跟不规范生产, 大大降低产品成本, 所有工厂均符合当地法规要求, 高标准生产, 厂家直销, 去除中间费用。  
No high rent and non-standard production, greatly reduce the cost of products, all factories are in line with local laws and regulations, high standards of production, factory direct sales, remove intermediate costs.



### 为什么要用进口设备生产跟检验产品? Why use imported equipment to produce and inspect products?

德国WH、奥地利SML、意大利AMUT流延机, 纳米技术, 物理性能优异, 高产量自动化, 意大利ESTL动态检测, 质量全程可追溯。  
No high rent and non-standard production, greatly reduce the cost of products, all factories are in line with local laws and regulations, high standards of production, factory direct sales, remove intermediate costs.



### 为什么我们的原材料供应稳定且低价? Why is our supply of raw materials stable and low?

跟石化厂签订直销长约, 使用多种套保等期现工具, 美金海外购买全球高品质原料。  
Signing direct sales contracts with petrochemical plants, using a variety of hedging and other current tools, to buy high-quality raw materials from overseas.



### 为什么我们的产品拥有核心竞争力? Why do our products have core competitiveness?

17年专业研发团队, 各大高校合作实验室, 全球化合作实验, 开发单面粘、打孔膜、环保膜等领先产品。丰富的降本方案大幅降低客户使用成本。  
We have over 17 years of professional R&D team, collaborative laboratories of major universities and global cooperation experiments to develop leading products such as single-sided adhesive, perforated film and environmental protection film. Abundant cost reduction schemes greatly reduce your usage costs.



### 为什么我们一直坚持生产绿色环保100%可回收产品? Why do we always insist on producing green and environmentally friendly 100% recyclable products?

可持续发展是我们的理念, 通过Rosh、Reach、卤素FDA等标准, 提高包装可回收率, 更多使用再生材料、生物基和降解材料。  
Sustainable development is our philosophy, We have passed Rosh, Reach, halogen FDA and other standards, increased packaging recyclability, and used more recycled materials, bio-based and degradable materials

= That's why?  
这就是为什么?