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PRODUCT CATALOG

Shandong Baoshuo Biotechnology Packaging Co. Ltd
山东宝硕生物科技包装有限公司

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QUALITY MANUFACTURING
品 质 制 造

Welcome To

Business Baoshuo Biotechnology

We are a customized manufacturer of POF heat-shrinkable film with 20 years of production technology experience. We will wholeheartedly provide you with high-quality products, high-quality after-sales service and competitive prices.

我们是一家POF热收缩膜定制制造商，拥有 20 年的生产技术经验，我们将竭诚为您提供高质量的产品、优质的售后服务和具有市场竞争力的价格。

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About Us
关于我们

Established in 2015, Shandong Baoshuo Biotechnology Packaging Co., Ltd is a full-process polyolefin film manufacturer integrating scientific research, production, design, sales and after-sales service. It is a manufacturer of high-quality POF heat shrinkable film and an excellent domestic provider of overall packaging solutions for POF heat shrinkable film.

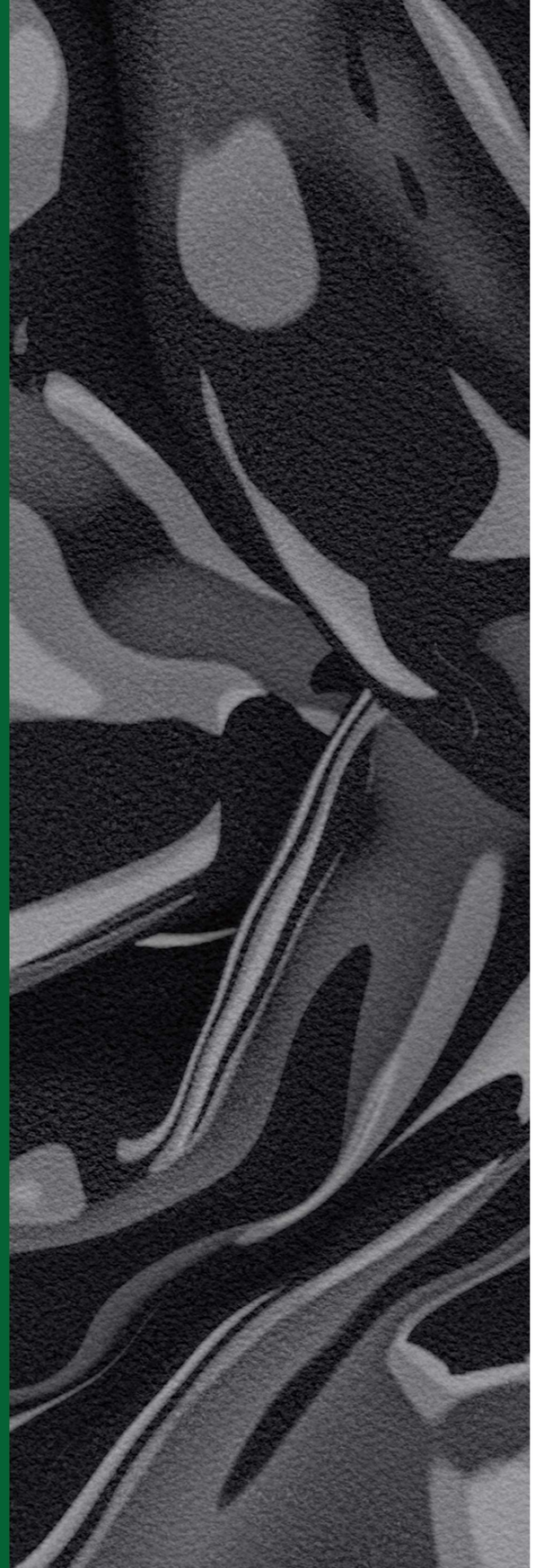
Since its establishment, the company has always adhered to the concept of "Quality is King and Sincere First", closely followed the ideas of stability, development and innovation, catered to the strategic deployment of "Accelerating the Transformation of Old and New Kinetic Energy and Striding Towards High-quality Development" in Shandong Province and Jining City, seized the momentum and bravely competed for the first, and the company has rapidly developed into a leader in the industry.

Shandong Baoshuo Biotechnology Packaging Co., Ltd. has established a high-level research and development and innovation team, carried out scientific and technological innovation in polymer bio based materials and production technology, and achieved fruitful results. The company has obtained QS production license， ISO9001 product quality certification and SGS certification. In terms of product quality, the company adheres to "NO Tolerance" and "NO Complaint". After many years of solid operation, the company has accumulated many high-quality customers with high-quality products and perfect after-sales service, and the products are exported to many overseas countries and regions.

山东宝硕生物科技包装有限公司成立于2015年，位于鲁南明珠、齐鲁毓秀的微山湖畔。是一家集科研、生产、设计、销售、售后为一体的全过程聚烯烃薄膜制造企业，是高品质POF热收缩膜制造商和优秀的POF热收缩膜整体包装解决方案提供商。

公司自成立以来，始终秉承“质量为王、诚信在先”的理念，紧扣稳定、发展、创新的思路，迎合山东省和济宁市“加快新旧动能转换，大步迈向高质量发展”的战略部署，乘势而上，奋勇争先，公司迅速发展成为同行业的领跑者。

山东宝硕生物科技包装有限公司组建了高层次的研发、创新团队，在高分子生物基材料、生产工艺方面进行了科技创新，取得了累累硕果。且先后取得了QS生产许可证、ISO9001产品质量认证、SGS认证。公司坚持在产品质量上做到“零容忍”、“零投诉”，严格把控产品质量关。经过多年扎实经营，公司凭借优质的产品和完善的售后服务，积累了众多优质客户，产品远销海外多个国家和地区。



Multi sets advanced five layers co-extruded pof flim blowing machines that are of italy technology origin.
多台先进的五层共挤pof吹膜机，源自意大利技术。

Best raw materials imported abroad .
最好的原材料是国外进口的。

1 specific lab with kinds of testing machines for quality control.
1个专门的实验室，配备多台质量检测仪器。

Qualifed with kinds of certificates like ISO9001:2008, brciop,GB/T19001-2008, reach and so on.
通过ISO 9001:2008、brc iop、GB/T19001-2008、reach等各类认证。

Production capacity over 1000 tons per month.
每月生产能力超过 1000 吨。

Main oversea market: European countries,middleeastern countries, southeastern asian countries,southern american countries,oceania countries and so on.
主要海外市场：欧洲国家，中东国家，东南亚国家，美国南部国家，大洋洲国家，等等。

Committed To Manufacturing High-quality Products

致力于制造高质量产品

Polyolefin (POF) Shrink Film

POF标准热收缩膜

Product Features：

Polyolefin (POF) Normal Shrink Film is a kind of heat shrinkable film with high strength, high transparency and biaxial orientation, with stable shrinkage and smooth shrinkage effect. The film feels soft and will not become brittle under normal freezing temperature. This packaging film is environmentally friendly, and the packaging process will not produce harmful gases. It is very suitable for the collective packaging of multiple articles, especially for the packaging of special-shaped articles.
The heat sealing performance of POF film can be applied to manual, semi-automatic and high-speed full-automatic packaging machines, with a wide range of applications for machines and high strength after heat sealing. As an economical and effective flexible packaging film, POF Normal Shrink Film is widely used in various industries.

Thickness：12um,15um,19um,25um,30um.

产品特性：

聚烯烃(POF)标准收缩膜是一种强韧、透明度极佳的双向热收缩膜，收缩率稳定、均衡且包装效果好。该薄膜触感柔软，且耐低温性能好，低温时不会变硬发脆，可以有效的保护被包装产品。包装过程不会产生有害气体。POF膜有较高的收缩率，其产生的收缩张力可将一组要包装的物品裹紧，起到很好的捆扎作用，非常适用于多件物品的集合包装，尤其对异型物品的包装效果甚佳。
POF膜的热封性能，可适用于手动、半自动和高速全自动包装机，对于机器的应用范围较宽，并且热封后的强度高。POF标准收缩膜作为一种经济实惠的软性包装膜，被广泛应用在各个行业之中。

常规厚度：12um、15um、19um、25um、30um。

Property 性能	Unit 单位	Test Method 测试方法	Representative Value 指标				
Thickness 厚度	Micron		12	15	19	25	30
Density 密度	g/cm3		0.922	0.922	0.922	0.922	0.922
Tensile Properties 拉伸性能			MD/TD	MD/TD	MD/TD	MD/TD	MD/TD
Tenacity 韧性	N/mm2	ASTM-D882A	340/350	340/450	340/450	360/450	370/480
Tensile Strength 拉伸强度	N/mm2	ASTM-D882	120/120	110/110	110/110	100/100	100/100
Elongation 断裂伸长率	%	ASTM-D882	110/110	110/110	110/110	105/105	100/100
Sealing Strength 封口强度	G/cm3 N/mm2	Internal	670 61	870 57	1025 53	1250 49	1400 43
Tear Strength 抗断裂强度	G/cm3	ASTM-D1938	4	5.5	9.5	14.5	16

Crosslinked POF Shrink Film

POF交联热收缩膜

Product Features：

Cross-linking technology makes Cross-linked POF Shrink film a popular heat shrinkable film, and this film can help you solve the difficult problem of shrink packaging, because POF Cross-linked Shrink Film has excellent shrinkage rate, firmer sealing, high puncture strength, strong wear resistance and wider shrink temperature range. Excellent performance makes POF Cross-linked ShrinkFilm suitable for any type of packaging machinery.

Thickness 12um,15um,19um,25um,30um.

产品特性：

交联技术使POF交联收缩膜成为了受欢迎的热收缩膜，交联膜能帮您解决收缩包装方面比较困难的难题，因为POF交联收缩膜有非常出色的收缩率，并且封口更牢固，抗刺穿强度高结实耐磨，收缩温度范围更广。优良的性能使POF交联热收缩膜能适应任何型号包装机械。

常规厚度: 12um、15um、19um、25um、30um。

Test Item测试项目		Unit单位	Astmtest	Typical Values指标				
Thickness厚度		Micron		12um	15um	19um	25um	30um
Tensile Strength(MD)拉伸强度		N/mm	D882	130	135	135	135	135
Tensile Strength(TD)				125	125	125	130	130
Elongation（MD）断裂伸长率		%		125	130	130	140	140
Elongation（TD）				120	125	125	130	135
Tear撕裂强度（MD）		g	D1922	10	14.5	17.5	25.5	33.5
Tear（TD）				9.0	13.5	16.5	25.0	30.0
Seal Strength热封强度（MD）		N/mm	F88	1.13	1.29	1.45	1.75	2.15
Seal Strength（TD）				1.18	1.43	1.65	1.75	2.10
Haze雾度			D1003	2.3	2.6	3.5	3.8	4.2
Clarity透明度			D1746	98.5	98.8	98.0	97.5	94.0
Gloss@45Deg光泽度			D2457	88.5	88.0	87.5	86.0	86.0
Oxygen Transmission Rate透氧率		cc/m/day	D3985	10300	9500	6200	5400	4200
Water Vapor Transmission Rate透水气率		gm/m/day	F1249	34.5	29.5	21.5	15.5	11
				MD			TD	
Shrinkage收缩率	100℃	%	D2732	16			26	
	110℃			34			43	
	120℃			62			66	
	130℃			81			79	

Low Temperature Film
POF低温收缩膜

Product Features：

POF Low-temperature Shrink Film is a kind of high-performance soft film, which has the characteristics of low shrinkage force, high shrinkage rate and low shrinkage temperature. For soft and elastic products, low shrinkage force makes the low-temperature film not deform the product after shrinkage packaging. However, its strength is large enough to be suitable for packaging irregular goods, because this kind of shrink film can cling to the products with irregular packaging shape, and can keep the packaging effect smooth and bright without wrinkles. At the same time, the characteristics of low-temperature shrinkage also enable it to protect heat-sensitive products. POF Low-temperature Shrink Film is suitable for any packaging machine.

Thickness: 12um, 15um, 19um, 25um.

产品特性：

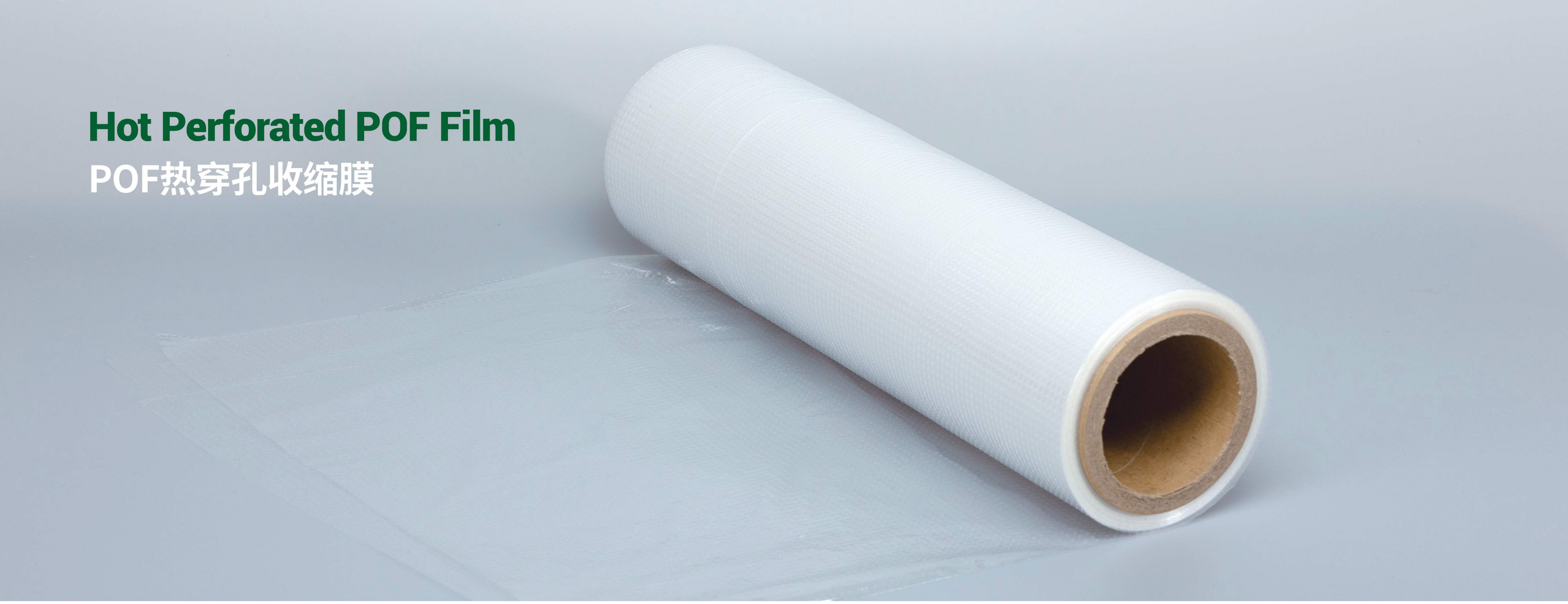
POF低温膜是一种高性能软膜，它具有低收缩力、高收缩率、收缩温度低等特点。对于柔软和带有弹性的产品，低收缩力使低温膜在收缩包装后不会使产品变形；但是它的强度又足够大，适合包装不规则物品，因为这种收缩膜能紧贴包装外形不规则的产品，能保持包装顺滑光亮，不带皱纹。同时低温收缩的特性也使它可以保护对热敏感的产品。低温收缩膜适用于任何包装机。

常规厚度：12um、15um、19um、25um。

Test Item测试项目		Unit单位	Astmtest	Typical Values指标			
Thickness厚度		Micron		12um	15um	19um	25um
Tensile Strength拉伸强度(MD)		N/mm2	D882	75	70	70	65
Tensile Strength(TD)				65	60	30	60
Elongation断裂伸长率（MD）		%		105	105	110	110
Elongation（TD）				85	90	90	95
Tear撕裂强度（MD）		g	D1922	15.5	18.5	32	40
Tear（TD）				13.5	16.5	23.5	30
Seal Strength热封强度（MD）		N/mm	F88	0.68	0.78	0.95	1.25
Seal Strength（TD）				0.62	0.72	0.91	1.17
Haze雾度			D1003	3.1	3.6	4.2	4.5
Clarity透明度			D1746	97.5	98	97	95
Gloss@45Deg光泽度			D2457	86.5	84	82	80.5
Oxygen Transmission Rate透氧率		cc/m2/day	D3985	12300	11200	9400	6500
Water Vapor Transmission Rate透水气率		gm/m2/day	F1249	49	42	35	28
Shrinkage收缩率				MD	TD	MD	TD
	80℃	%	D2732	23	20	21	17
	90℃			29	32	27	26
	100℃			50	52	48	47
	110℃			59	60	55	56
	120℃			65	65	63	65
	130℃			70	68	68	67

Hot Perforated POF Film

POF热穿孔收缩膜



Product Features：

Hot Perforated POF Shrink Film combines the characteristics and advantages of pof standard film, and is mainly used in the food industry.Such as the packaging of eggs, bread, vegetables, fruits and other products, which can well ensure the exchange of food and external gas, and help to keep food fresh.

Thickness: 12um, 15um, 19um, 25um, 30um.

产品特性：

POF热打孔膜兼具POF标准膜的特性与优点，主要用于食品行业，如蛋类，面包，蔬菜，水果等产品的包装，能很好的保证食品与外界气体交换，有助于食品保鲜。

常规厚度：12um、15um、19um、25um、30um。

Property 性能	Unit 单位	Test Method 测试方法	Representative Value 指标				
Thickness 厚度	Micron		12	15	19	25	30
Density 密度	g/cm3		0.922	0.922	0.922	0.922	0.922
Tensile Properties 拉伸性能			MD/TD	MD/TD	MD/TD	MD/TD	MD/TD
Tenacity 韧性	N/mm2	ASTM-D882A	340/350	340/450	340/450	360/450	370/480
Tensile Strength 拉伸强度	N/mm2	ASTM-D882	120/120	110/110	110/110	100/100	100/100
Elongation 断裂伸长率	%	ASTM-D882	110/110	110/110	110/110	105/105	100/100
Sealing Strength 封口强度	G/cm3 N/mm2	Internal	670 61	870 57	1025 53	1250 49	1400 43
Tear Strength 抗断裂强度	G/cm3	ASTM-D1938	4	5.5	9.5	14.5	16

Printed POF Shrink Film

POF印刷热收缩膜

Product Features：

Printed POF Shrink Film is a customized film that can be printed according to our client's requirements.With advanced POF printing equipment & technology, extensive experience, we provide you perfect POF printed film and professional service. The printing film project could be an ideal solution for anti-counterfeit packaging, information identification, image promotion and low packing cost etc.

Thickness 12um,15um,19um,25um,30um.

产品特性：

POF印刷收缩膜是一种可根据客户要求定制印刷的产品。凭借先进的POF印刷设备、技术以及丰富的经验，我们可为您提供完美的POF印刷服务。印刷薄膜项目可成为您解决防伪包装、信息识别、公司宣传和低包装成本等问题的理想方案。

常规厚度：12um、15um、19um、25um、30um。

Property 性能	Unit 单位	Test Method 测试方法	Representative Value 指标				
Thickness 厚度	Micron		12	15	19	25	30
Density 密度	g/cm3		0.922	0.922	0.922	0.922	0.922
Tensile Properties 拉伸性能			MD/TD	MD/TD	MD/TD	MD/TD	MD/TD
Tenacity 韧性	N/mm2	ASTM-D882A	340/350	340/450	340/450	360/450	370/480
Tensile Strength 拉伸强度	N/mm2	ASTM-D882	120/120	110/110	110/110	100/100	100/100
Elongation 断裂伸长率	%	ASTM-D882	110/110	110/110	110/110	105/105	100/100
Sealing Strength 封口强度	G/cm3 N/mm2	Internal	670 61	870 57	1025 53	1250 49	1400 43
Tear Strength 抗断裂强度	G/cm3	ASTM-D1938	4	5.5	9.5	14.5	16

Colored POF Shrink Film

POF彩色热收缩膜

Product Features：

Colored POF Shrink Film has the characteristics of normal shrink film, and can also meet your different demands, different colors and different packaging effects.

Thickness: 12um, 15um, 19um, 25um, 30um.

产品特性：

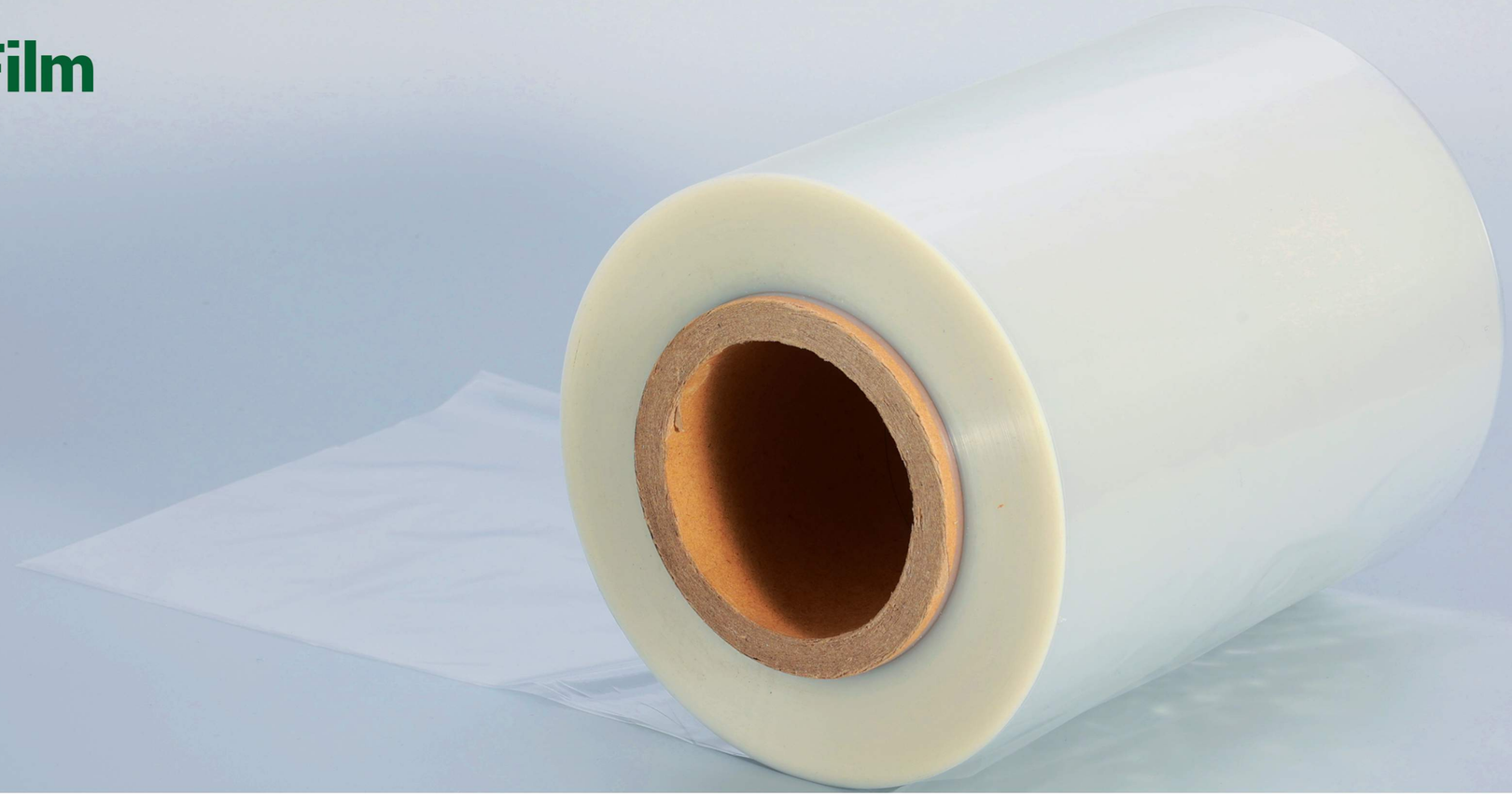
彩色POF收缩膜具有标准收缩膜的特性，还可以满足您不同的颜色需求，不同的色彩给您不一样的包装效果。

常规厚度：12um、15um、19um、25um、30um。

Property 性能	Unit 单位	Test Method 测试方法	Representative Value 指标				
Thickness 厚度	Micron		12	15	19	25	30
Density 密度	g/cm3		0.922	0.922	0.922	0.922	0.922
Tensile Properties 拉伸性能			MD/TD	MD/TD	MD/TD	MD/TD	MD/TD
Tenacity 韧性	N/mm2	ASTM-D882A	340/350	340/450	340/450	360/450	370/480
Tensile Strength 拉伸强度	N/mm2	ASTM-D882	120/120	110/110	110/110	100/100	100/100
Elongation 断裂伸长率	%	ASTM-D882	110/110	110/110	110/110	105/105	100/100
Sealing Strength 封口强度	G/cm3 N/mm2	Internal	670 61	870 57	1025 53	1250 49	1400 43
Tear Strength 抗断裂强度	G/cm3	ASTM-D1938	4	5.5	9.5	14.5	16

PE Shrink Film

PE收缩膜



Product Features：

PE Shrink Film is polyethylene environ-ment-friendly packaging film with high strength and toughness, and is not easy to be damaged. It can be divided into single-layer type and center-folded type, which is more suitable for automatic packaging machine. It can replace carton packaging for heavier goods.

Thickness:0.025-0.3mm.

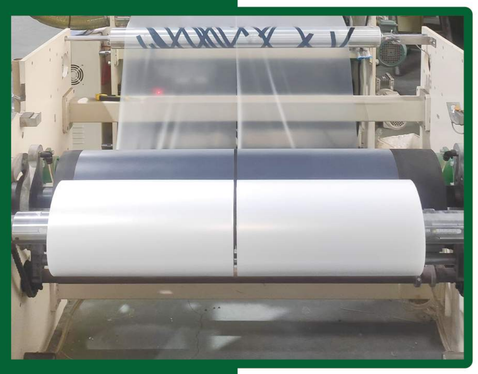
产品特性：

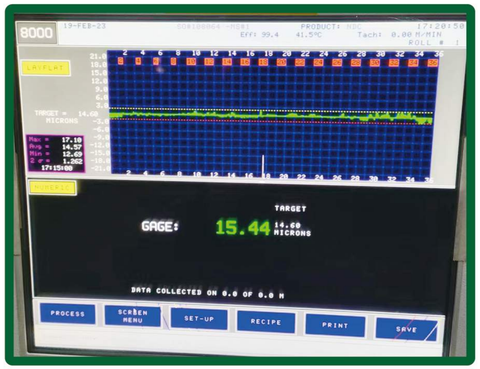
PE热收缩膜为聚乙烯环保型包装膜，强度高韧性好，不易破损，分为单片型和对折型，二者皆适用于全自动组合包装。PE收缩膜可代替纸箱包装，承受较重的内容物。

常规厚度：0.025-0.3mm。

PE Shrink Fim Technical Data PE收缩膜数据			
Item 项目	Unit 单位	Representative Values 指标	
Tensile Strength 拉伸强度	MP2	MD	≥12
		TD	
Elongtion 断裂伸长率	%	MD	≥200
		TD	
Tear Propagation 断裂强度	KN/m	MD	≥40
		TD	
Shrinkage 收缩率	%	MD	50-80
		TD	20-40
Shrinkage Temperature 收缩温度	℃	180	
Thickness 厚度	mm	0.025-0.3	
Width 宽度	mm	200-1500	

Production Workshop
生产车间





Product Scenario
产品应用场景