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## SHANDONG SHOUZHENG PLASTIC INDUSTRY CO., LTD

TO BECOME AN INDUSTRY LEADER  
WITH CORE COMPETITIVE ADVANTAGES  
IN THE FIELD OF AGRICULTURAL  
FIELD AND ENVIRONMENTAL PROTECTION



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PLASTIC INDUSTRY

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# COMPANY HISTORY



## A STORY OF FAMILY TEAMWORK AND HARD WORK

Shandong Shouzheng Plastic Industry Co., Ltd. was established in 1997 in China by Mr. Bingchun Zhao.

In the early 1990s, Mr. Bingchun Zhao started to understand the business related to plastics. A few years later, he began to learn the production of agricultural films and rented his first small factory.

Mr. Zhao's vision, focused on innovation in an emerging market, along with the support from a professional and hard-working team, who were committed to the corporate project and to the family, led to a rapid expansion in 2000s. The Shouzheng company is currently a reference in the sector in China. Our solutions reach clients in over 30 countries and our turnover is close to \$1 billion.

## COMPANY PROFILE

Shouzheng is integrating agricultural field research and development, production, sales in the field of agricultural film, mulch, Geomembranes, silo bags, silage films and packaging films.

Shouzheng establishes national-recognized enterprise technology center, the national key laboratory, Post-Doctoral research center, Shandong province ceramic fiber engineering technology research center with 55 patents and 28 technological achievements.

Shouzheng has an annual output of 60,000 tons of various films products. Shouzheng scale, technology, variety and performance have come out top in the domestic industry for more than 20 years. The products are in great demand nationwide and are exported to more than 30 countries and regions such as the United States, Spain, Japan, Brazil, etc.

"To become an industry leader with core competitive advantages in the field of agricultural field and environmental protection" is according to the consensus reached by all the Shouzheng people, and make new progress and great contribution to the development of the regional economy.

**55** PATENTS

**28** TECHNOLOGICAL

EXPORTED TO OVER **30** COUNTRIES

ANNUAL OUTPUT OF **60,000** TONS



## 1ST DECADE



**1996**

Mr.Zhao loaned money from bank and started our business with "debt".

**1997**

Shouzheng was established, Mr.Zhao Bingchun was appointed to be the director.

**1998**

the first three mulch films production line was built.

**2002**

the first third layer blowing machine was built in our factory, and we started to produce films for greenhouse and animal shelters(panda films).

## RECENTLY



**2018**

Shouzheng participated in International Standard ISO-9001,also becoming a strategic partner for polyethylene with Exxon Mobil.

## 2ND DECADE



**2008**

the annual production capacity of various films products reaches 10,000 tons.

**2013**

the annual production capacity of various films products reaches 20,000 tons.

**2015**

the first five layer blowing machine was built in our factory, and this is also the second five layer blowing machine in China.

**2016**

in order to adapt to the international market and expand production capacity, we started to build a new factory and rename it Shouzheng . And the annual production capacity of various films products reaches 30,000 tons.

**2019**

the new factory which is covering an area of 220 acres has been built and put into operation.

**2020**

Shouzheng establishes an overseas company called SUMSIGHT LLC in Balls, Texas, USA.

**2023**

more than 60 production lines were in the factory and the annual output of various films products could be 60,000 tons.

# VISION AND MISSION



## COMPANY VISION

Better The World With High Functional Plastic Films

## COMPANY MISSION

Promote Global Agriculture Through Extensive Research And Implement High-yielding Science And Technology In Agriculture

## COMPANY VALUES

Innovation, Trust and Responsibility

# OUR PRODUCTS

## Agricultural Film Series

- Greenhouse Film
- Five Layer Greenhouse Film
- Light Diffusion Film
- PO Agricultural Film
- Panda Film
- Mulch
- Silo Bag
- Silage
- Cotton Wrap Film

## Packaging Film Series

## Geomembrance Series

- LLDPE Geomembrance
- HDPE Geomembrance



# AGRICULTURAL FILM SERIES



Mulch And Ground Cover



Mushroom Houses



Cannabis/Hemp Cultivation



Berries Cultivation



Cotton Wrap



Flower Cultivation



Animal Shelters



Silo Bags



Applications In Agriculture

# GREENHOUSE FILM

## FIVE LAYER GREENHOUSE FILM

### PRODUCT INTRODUCTION

Shouzheng's Five Layer Transparent Greenhouse Plastic Agricultural Film Series products by the world leading five layers of blowing film equipment manufacturing, product width, thickness, service life, flow drops, insulation, tension, optical performance is better than the traditional three layer blowing film equipment production products, Flow drop & Anti fog Effective period can reach 3 to 6 months, also according to the user requirements design service life of 1 to 20 years, greatly reduce the user planting cost.

### FUNCTION

- Flow Drop & Anti Fog & Long-Life Isolation Of Dust
- Light And Easy To Build
- Strong Durability
- Good Light Transmittance
- Waterproof And Moisture-Proof

Used In Greenhouses And Other Covering Materials



Used As Warehouses



### APPLICATIONS

Used For Vegetables Cultivation



Used For Grow Seedlings



Used For Grow Seedlings



**SHOUZHENG  
FIVE LAYER  
GREENHOUSE FILM**

### PRODUCT SPECIFICATION

<b>Model NO.</b>	Five Layer Greenhouse Film	<b>Length</b>	Customized
<b>Thickness</b>	1.96-7.87 MIL	<b>Width</b>	3.28-59FT Can Be Spliced To Customize Wider Meters
<b>Transport Package</b>	Rolls/ Ton Bags	<b>Logo</b>	Accept Customized Logo
<b>MOQ</b>	750 KG	<b>Color</b>	Clear/ Light Blue/ Light Yellow
<b>Material</b>	100% LDPE + MPE+Functional Additives	<b>Application</b>	Vegetables, Fruits, Flowers Cultivation And Grow Seedlings
<b>Density</b>	0.93/m³	<b>Place Of Origin</b>	Zibo, Shandong, China

### TECHNICAL PRODUCT INFORMATION

Property	Units	Technical Requirement	Inspection Results	Single Judgment
Tensile Strength At Break[MD]	MPa	≥16	25	Pass
Tensile Strength At Break[TD]	MPa	≥16	23	Pass
Elongation At Break [MD]	%	≥300	471	Pass
Elongation At Break [TD]	%	≥300	554	Pass
Tear Strength Of Right-Angle[MD]	kN/m	≥60	79	Pass
Tear Strength Of Right-Angle[TD]	kN/m	≥60	82	Pass
Light Transmission	%	≥85	92	Pass
Haze	%	≥35	25	Pass
Drip Performance、Initial Drip Time	S	≥420	287	Pass

# LIGHT DIFFUSION FILM

## PRODUCT INTRODUCTION

Light Diffusion Film is a new type of product by adjusting the light into the film, can be customized according to customer needs, superior performance, greatly improve the benefits of crops.

## FUNCTION

To Give The Film a Higher Light Transmittance  
 Make The Light Distribution More Uniform  
 Crops Are Of Better Quality  
 Increase Temperature And Temperature  
 Slow Down The Occurrence Of Insect Pests  
 Reduce The Use Of Pesticides

## APPLICATIONS

Used For Berries Cultivation



Used For Tomatoes And Eggplants



Used For Special Planting Of Flowers



## PRODUCT SPECIFICATION

<b>Model NO.</b>	Light Diffusion Film	<b>Length</b>	Customized
<b>Thickness</b>	1.96-7.87 MIL	<b>Width</b>	3.28-59FT Can Be Spliced To Customize Wider Meters
<b>Transport Package</b>	Rolls/ Ton Bags	<b>Logo</b>	Accept Customized Logo
<b>MOQ</b>	5,000 KG	<b>Color</b>	Light Blue/ Light Yellow/ Clear
<b>Material</b>	100% LLDPE + Functional Additives	<b>Application</b>	Berries, Tomatoes And Eggplants, Flowers Cultivation
<b>Density</b>	0.93/m³	<b>Place Of Origin</b>	Zibo, Shandong, China

## TECHNICAL PRODUCT INFORMATION

Property	Units	Technical Requirement	Inspection Results	Single Judgment	
Tensile Strength At Break[MD]	MPa	≥18	33.05	Pass	
Tensile Strength At Break[TD]	MPa	≥18	35.28	Pass	
Elongation At Break [MD]	%	Thickness≤0.08	≥350	856.14	Pass
		Thickness>0.08	≥400	930.22	
Elongation At Break [TD]	%	Thickness≤0.08	≥350	1107.28	Pass
		Thickness>0.08	≥400	1128.23	
Tear Strength Of Right-Angle[MD]	kN/m	≥70	98.77	Pass	
Tear Strength Of Right-Angle[TD]	kN/m	≥70	117.38	Pass	
Light Transmission	%	≥85	89.66	Pass	
Haze	%	≥50	54.03	Pass	

# LIGHT DIFFUSION FILM



# PO AGRICULTURAL FILM

## PRODUCT INTRODUCTION

PO Agricultural Film is a new type of high-grade agricultural film produced by using advanced olefin materials and other plastic processing additives and coating and drying processing process.

This product is originated from Japan, and we have improved the process after introducing the product. The product is produced using Takumoto Oil Co., LTD. and ExxonMobil MPE, and using five layers of extrusion equipment, combined with drying and corona technology to make the product stronger and more efficient. At the same time, the light transmittance of this product can reach more than 85% stably, and the flow droplet elimination function can also be synchronized with the service life of the product, greatly extending the service life and service value of the film.

## FUNCTION

- Low Fog Degree, High Transparency
- Super Continuous Fog, Flow Ability
- Enhanced Thermal Insulation Performance
- Long Service Life
- Ultra-Strong Tensile Strength
- Anti-Static Electricity, Non-Stick Dust
- Reduce Diseases And Insect Pests
- Increase Production And Income, Early Listing
- Crops With Bright Color, Good Taste, And High Quality

## APPLICATIONS

Used For Strawberries Cultivation



Used For Vegetables Cultivation



Used For Grapes Cultivation



## PRODUCT SPECIFICATION

<b>Model NO.</b>	PO Agricultural Film	<b>Length</b>	Customized
<b>Thickness</b>	1.97-5.91MIL 0.05-0.15MM	<b>Width</b>	3.28-59FT Can Be Spliced To Customize Wider Meters
<b>Transport Package</b>	Rolls/ Ton Bags	<b>Logo</b>	Accept Customized Logo
<b>MOQ</b>	1,000 KG	<b>Color</b>	Light Blue/ Light Yellow/ Clear
<b>Material</b>	100% LLDPE + MPE+ Functional Additives	<b>Application</b>	Vegetables, Grapes And Strawberries Cultivation
<b>Density</b>	0.93/m <sup>3</sup>	<b>Place Of Origin</b>	Zibo, Shandong, China

## TECHNICAL PRODUCT INFORMATION

Property	Units	Technical Requirement	Inspection Results	Single Judgment
Tensile Strength At Break[MD]	MPa	≥18	32.09	Pass
Tensile Strength At Break[TD]	MPa	≥18	31.41	Pass
Elongation At Break [MD]	%	Thickness>0.08 ≥400	856.96	Pass
Elongation At Break [TD]	%	Thickness>0.08 ≥400	1071.81	Pass
Tear Strength Of Right-Angle[MD]	kN/m	≥70	76.10	Pass
Tear Strength Of Right-Angle[TD]	kN/m	≥70	90.65	Pass
Light Transmission	%	Thickness0.08-0.12 ≥86	91.35	Pass
Haze	%	Thickness0.08-0.12 ≤35	10.42	Pass

**SHOUZHENG  
PO AGRICULTURAL  
FILM**

# PANDA FILM

## PRODUCT INTRODUCTION

Shouzheng Panda Film all use of imported raw materials and high-performance additives, through the five-layer formula function design, to ensure that the product has super high strength, excellent puncture resistance and super long service life. Shouzheng Panda Film series products can be customized according to customer needs, including black and white film, green and white film, milky film, flame retardant film. These products are currently being widely used in edible fungi, poultry breeding and many other fields, widely praised.

## FUNCTION

- Excellent Puncture Resistance, Flexibility, And Strong Tensile Force
- Long Service Life
- Adjust Soil Temperature
- Increase Fertilizer Conversion Rate
- Save Water
- Excellent Tensile Properties

## APPLICATIONS

Used For Mushroom Houses



Used For Greenhouse Planting



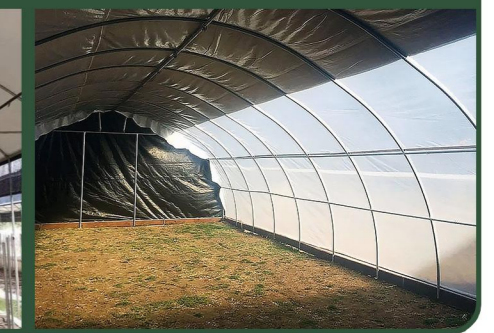
Used For Animal Husbandry



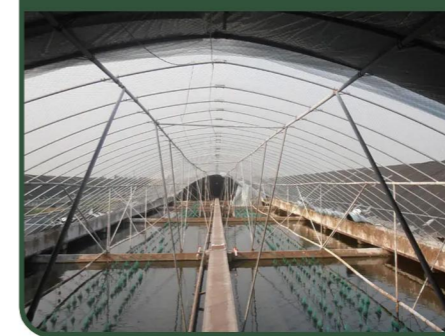
Used For Greenhouse Planting



Use It As Warehouse



For Poultry Breeding, Sericulture Breeding, Aquaculture Coverage



## PRODUCT SPECIFICATION

<b>Model NO.</b>	Panda Film	<b>Length</b>	Customized
<b>Thickness</b>	3.94-11.81MIL 0.10-0.30MM	<b>Width</b>	3.28-59FT Can Be Spliced To Customize Wider Meters
<b>Transport Package</b>	rolls/ Ton Bags	<b>Logo</b>	Accept Customized Logo
<b>MOQ</b>	10,000 KG	<b>Color</b>	Black And White
<b>Material</b>	100% LLDPE + MPE + color masterbatch	<b>Application</b>	Mushroom Houses, Animal Shelters, Cannabis Cultivation, Warehouse
<b>Density</b>	0.98/m <sup>3</sup>	<b>Place Of Origin</b>	Zibo, Shandong, China

## TECHNICAL PRODUCT INFORMATION

Property	Units	Technical Requirement	Inspection Results	Single Judgment
Tensile Strength At Break[MD]	MPa	≥18	29.20	Pass
Tensile Strength At Break[TD]	MPa	≥18	35.22	Pass
Elongation At Break [MD]	%	≥400	999.18	Pass
Elongation At Break [TD]	%	≥400	1171.08	Pass
Tear Strength Of Right-Angle[MD]	kN/m	≥70	85.59	Pass
Tear Strength Of Right-Angle[TD]	kN/m	≥70	95.50	Pass

# MULCH

## PRODUCT INTRODUCTION





Shouzheng Mulch Film uses imported raw materials and advanced production technology, the color is usually transparent, silver black and green, but also can customize the required color and type needed according to customer needs. The company's products are uniform thickness, accurate width, covering degree, tension and anti-aging performance are much better than similar products in the market, to bring real benefits to farmers, and the products are recognized by the market

## FUNCTION

- Improve The Ground Temperature
- Protect Fertilizer And Improve Fertilizer Efficiency
- Weed Eradication
- Prevention Of Disease Insects
- Drought Prevention And Waterlogging Resistance
- Salt Suppression And Seedling Preservation
- Improve The Near-Surface Photothermal Conditions
- Biodegradable, Environmentally Friendly And Pollution-Free

## APPLICATIONS

Transparent Mulch	Heat preservation, soil moisture preservation, anti-freezing, improve ground temperature, water saving, improve the utilization rate of light, transparency, tension is better than similar products in the market.	 
Black Mulch	In addition to the role of transparent plastic film, it can also better inhibit the growth of all kinds of weeds, used in summer can reduce the ground temperature, uniform color, covering degree, tension, anti-aging performance is better than similar products in the market.	 
Silver Black Mulch	It has strong light reflection, can drive away aphids, fill the light on the back of fruits with insufficient light, promote fruit coloring, improve crop yield and quality, cool down, and inhibit the growth of weeds. Bright color, good reflection, product pull, anti-aging performance is better than similar products in the market.	 
Black And White Alternating Plastic Film	It has the functions of transparent plastic film and black plastic film, the temperature effect of transparent plastic film cultivation crops, black plastic film suppresses the growth of weeds and reduces the ground temperature, black and white plastic film effectively improves the crop water and fertilizer efficiency of crops, promotes the growth of crop root system and strengthens seedlings. Uniform thickness, high black cover, accurate width, tension is better than the market similar products.	 

Flow Drop Mulch	High light transmittance, fast open temperature, good thermal insulation performance, large temperature difference between inside and outside the membrane, tension, anti-aging performance is better than similar products in the market.	 
Biodegradable Mulch Film	Shouzheng degradable film is a kind of environment friendly new products, in addition to have the function of ordinary film, also can be in the natural environment conditions can be microbial and degradation, suitable for a variety of crops, such as potato, sweet corn, peanuts, sugar cane, etc., can improve the soil temperature, keep soil moisture, maintain soil structure, prevent pests crops and some diseases caused by microorganisms, so as to promote plant growth.	 

## PRODUCT SPECIFICATION

<b>Model NO.</b>	Mulch	<b>Length</b>	Customized
<b>Thickness</b>	0.01-0.20MM 0.4-7.9MIL	<b>Width</b>	3.3-78FT 1.0-24M Can Be Spliced To Customize Wider Meters
<b>Transport Package</b>	Rolls/ Ton Bags	<b>Logo</b>	Accept Customized Logo
<b>MOQ</b>	500 KG	<b>Color</b>	Black/Clear/Green/Silver&Black/Black&White
<b>Material</b>	100% Ldpe + Functional Additives	<b>Application</b>	Vegetables And Fruits, Gingers, Tomatoes, Potatoes And Grains Planting
<b>Density</b>	0.94/m³	<b>Place Of Origin</b>	Zibo, Shandong, China

## TECHNICAL PRODUCT INFORMATION

Property	Units	Technical Requirement	Inspection Results	Single Judgment
Sample Appearance	/	Bubbles, impurities, stripes, perforations, wrinkles, etc., are not allowed	Meet the requirements	Pass
	/	Film winding neatly, no obvious violent tendons	Meet the requirements	Pass
Width Limit Deviation	mm	+40, -10	+15	Pass
Thickness Mean Deviation	%	+15, -12	-4.8	Pass
Thickness Limit Deviation	mm	+0.003, -0.002	0, -0.0005	Pass
Stretching Force[MD]	N	≥1.6	2.87	Pass
Stretching Force[TD]	N	≥1.6	2.33	Pass
Elongation At Break [MD]	%	≥260	437.87	Pass
Elongation At Break [TD]	%	≥260	796.52	Pass
Tear Strength Of Right-Angle[MD]	N	≥0.8	0.95	Pass
Tear Strength Of Right-Angle[TD]	N	≥0.8	1.19	Pass

# SILO BAG

## PRODUCT INTRODUCTION

Shouzheng 5 Layer Silo Bag can store dry products such as wheat, maize, soybean, rice, barley, other grain products and wet products like silage, biomass, forage among others. We can design customize the length based on specific requirements.

## FUNCTION

- Excellent Preservation
- Economy
- Excellent Mechanical Properties
- Great Resistance To Puncture And Impact To The Dart

## APPLICATIONS

Micro Ground Corn, Sorghum, Etc.



Grassland



Fertilizers



## PRODUCT SPECIFICATION

<b>Model NO.</b>	Silo Bag	<b>Length</b>	8FT, 9FT, 10FT, 12FT
<b>Thickness</b>	Up To 250 Micron	<b>Width</b>	Up To 150m Can Be Spliced To Customize Wider Meters
<b>Transport Package</b>	Rolls/ Ton Bags	<b>Logo</b>	Accept Customized Logo
<b>MOQ</b>	1000 KG	<b>Color</b>	Black And White
<b>Material</b>	100% LLDPE + MPE + Color Masterbatch	<b>Application</b>	Micro Ground Corn, Sorghum, Oat, Dried Grain Rice, Soya, Corn, Wheat, Rapeseed, Etc.
<b>Density</b>	0.98/m <sup>3</sup>	<b>Place Of Origin</b>	Zibo, Shandong, China

## TECHNICAL PRODUCT INFORMATION

Property	Units	Technical Requirement	Inspection Results	Single Judgment
Tensile Strength At Break[MD]	MPa	≥18	29.20	Pass
Tensile Strength At Break[TD]	MPa	≥18	35.22	Pass
Elongation At Break [MD]	%	≥400	999.18	Pass
Elongation At Break [TD]	%	≥400	1171.08	Pass
Tear Strength Of Right-Angle[MD]	kN/m	≥70	85.59	Pass
Tear Strength Of Right-Angle[TD]	kN/m	≥70	95.50	Pass

# SILAGE

## PRODUCT INTRODUCTION

Silage Film is used for wrapping and preserving silage. It's manufactured of special MV LDPE or LLDPE, can prevent the spread of bacteria and prevent the silage film from puncture, abrasion, and rupture.

## FUNCTION&APPLICATION

- Anti-UV
- Improves Feed Quality
- Moisture Protection
- Cost Effective And Easy To Store

## APPLICATIONS

Agricultural Silage



Livestock Farming



Grassland Management



## PRODUCT SPECIFICATION

<b>Model NO.</b>	Silage	<b>Length</b>	8FT, 9FT, 10FT, 12FT
<b>Thickness</b>	Up To 250 Micron	<b>Width</b>	Up To 150m Can Be Spliced To Customize Wider Meters
<b>Transport Package</b>	Rolls/ Ton Bags	<b>Logo</b>	Accept Customized Logo
<b>MOQ</b>	500 KG	<b>Color</b>	Black/White/Green
<b>Material</b>	100% LLDPE + MPE + Color Masterbatch	<b>Application</b>	Corn Stover Silage, Grass Silage, Rice Straw Silage, And Whole-Plant Corn Silage, Etc.
<b>Density</b>	0.98/m <sup>3</sup>	<b>Place Of Origin</b>	Zibo, Shandong, China

## TECHNICAL PRODUCT INFORMATION

Property	Units	Technical Requirement	Inspection Results	Single Judgment
Tensile Strength At Break[MD]	MPa	≥20	30	Pass
Tensile Strength At Break[TD]	MPa	≥20	27	Pass
Elongation At Break [MD]	%	≥600	771	Pass
Elongation At Break [TD]	%	≥750	854	Pass
Light Transmission	%	≤2	0.98	Pass
Water Vapor Transmittance	G/m2.d	≤5	2.35	Pass
Oxygen Permeability Rate	23°Cm <sup>2</sup> ·um /m <sup>2</sup> ·24h·kpa	≤1000	821	Pass

# COTTON WRAP FILM

## PRODUCT INTRODUCTION

Cotton Wrap Film is polyethylene plastic film. It can directly wrap cotton and protect cotton, corrosion resistance, moisture resistance, insect control, mildew control, is the ideal material for cotton packaging.

## FUNCTION

Reduce Loss  
Protect The Quality Of Cotton  
Sealing Moisturizing And Anti-Uv  
Environmental Protection Reduces Pollution

## APPLICATIONS



### PRODUCT SPECIFICATION

<b>Model NO.</b>	Cotton Wrap Film	<b>Length</b>	Customized
<b>Thickness</b>	0.4-7.9MIL	<b>Width</b>	3.3-78FT Can Be Spliced To Customize Wider Meters
<b>Transport Package</b>	Rolls/ Ton Bags	<b>Logo</b>	Accept Customized Logo
<b>MOQ</b>	750 KG	<b>Color</b>	Yellow/Orange
<b>Material</b>	100% LLDPE + MPE + Color Masterbatch	<b>Application</b>	Packaging And Transport Cottons
<b>Density</b>	0.94/m <sup>3</sup>	<b>Place Of Origin</b>	Zibo, Shandong, China

### TECHNICAL PRODUCT INFORMATION

Property	Units	Technical Requirement	Inspection Results	Single Judgment
Corona Intensity	Dyne	≥42	No puncture	Pass
Thickness	Average	0.07	Use the same dial indicator for both sides, and take 5 width points evenly and average	Pass
		+0.005		
		-0.005		
Range	MM	≤0.01	5 Max-Min	Pass
	MPa	≥30	85	Pass
Tensile Strength	MPa	≥30	85	Pass
Tensile Strength After Aging	MPa	≥28.5	73	Pass
Elongation At Break	%	≥600	650	Pass
Elongation At Break After Aging	%	≥500	580	Pass
Right Angle Tear Strength	KN/m	≥100	240	Pass
Puncture Resistance	N	≥4	23	Pass

# PACKAGING FILM SERIES

## PRODUCT INTRODUCTION

Shouzheng Packaging film has puncture resistance high strength and super waterproof performance, is widely used in food packaging, pharmaceutical packaging, textile packaging, paper making, hardware, plastic chemical, building materials and so on.

## FUNCTION

Tear Resistance, Impact Resistance  
Moisture-Proof, Gas And Ultraviolet  
Light Weight, Soft, Occupy Less Space  
Good Air Tightness And Heat Sealing Properties

## APPLICATIONS



### PRODUCT SPECIFICATION

<b>Model NO.</b>	Packaging Film	<b>Length</b>	Customized
<b>Thickness</b>	0.01-0.20MM 0.4-7.9MIL	<b>Width</b>	3.3-78FT 1.0-24M Can Be Spliced To Customize Wider Meters
<b>Transport Package</b>	Rolls/ Ton Bags	<b>Logo</b>	Accept Customized Logo
<b>MOQ</b>	750 KG	<b>Color</b>	Light Blue/ Light Yellow/ Clear
<b>Material</b>	100% LDPE + Functional Additives	<b>Application</b>	Food, Industrial Products, Medical Supplies, Automotive Field And Etc. Packing.
<b>Density</b>	0.94/m <sup>3</sup>	<b>Place Of Origin</b>	Zibo, Shandong, China

### TECHNICAL PRODUCT INFORMATION

Property	Units	Technical Requirement	Inspection Results		Single Judgment
			MDO 025	MDO 050	
Thickness	um	±8%	25	55	Pass
Tension Strength[MD]	Mpa	≥100	128	123	Pass
Tension Strength[TD]	Mpa	≥18	23	23	Pass
Elongation At Break[MD]	%	≤120	68	76	Pass
Elongation At Break[TD]	%	≤20	26	55	Pass
Heat Shrinkage(80°C;20min) [MD]	%	≤8.0	5.2	3.8	Pass
Heat Shrinkage(80°C;20min) [TD]	%	≤2.0	0.8	0.2	Pass
Coefficient Of Friction	/	≤0.35	0.28	0.33	Pass
Heat Seal Strength[MD]	N/15mm	≥3.0	6.6	8.2	Pass
Heat Seal Strength[TD]	N/15mm	≥3.0	4.8	6.6	Pass
Haze	%	≤8.0	5.5	7.2	Pass

# GEOMEMBRANCE SERIES

## LLDPE GEOMEMBRANCE & HDPE GEOMEMBRANCE

### PRODUCT INTRODUCTION

Shouzheng Geomembrance is made up of HDPE and LLDPE. It's designed with high-quality mechanical properties, durability, chemical resistance and welding capabilities. Their exceptional qualities make them a popular choice for engineers and constructors alike.

### APPLICATIONS



Used As Environmental Works & Civil Works



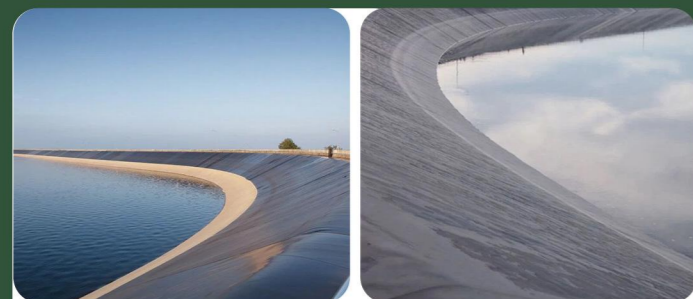
Used As Geotechnical Cloth



Used As Landfills



Used As Mining



Used As Ponds



Used As Channels

PRODUCT SPECIFICATION			
Model NO.	Geomembrance	Length	Customized
Thickness	2.00-3.00MM	Width	3.3-78FT
Transport Package	Rolls/ Ton Bags	Logo	Accept Customized Logo
MOQ	750 KG	Color	Green/Black/White
Material	100% LLDPE + MPE + Color Masterbatch	Application	Used As Landfills, Geotechnical Cloth, Environmental Works & Civil Works, Channels, Ponds, Mining
Density	0.94-0.96/m³	Place Of Origin	Zibo, Shandong, China

TECHNICAL PRODUCT INFORMATION										
	Property	Units	Test Method	Product Specification						Test Frequency
				BMS75	BMS10	BMS15	BMS20	BMS25	BMS30	
Mechanical Properties	Thickness	MM	ASTMD5199	0.75	1.00	1.50	2.00	2.50	3.00	Per Roll
	Density	G/cc	ASTMD1505/D792	0.94						90,000 kg
	Tensile Properties									
	Yield Strength	kN/m		11	15	22	29	37	44	
	Break Strength	kN/m	ASTMD 6693	20	27	40	53	67	80	9,000 kg
	Yield Elongation	%	Type IV	12	12	12	12	12	12	
	Break Elongation	%		700	700	700	700	700	700	
	Tear Resistance	N	ASTM D 2005	93	125	187	249	311	374	20,000 kg
	Puncture Resistance	N	ASTM D 4833	240	320	480	640	800	960	20,000 kg
	Stress Crack Resistance	hr.	ASTM D 5397	500 hr.						Per GRI GM-10
Reference Properties	Carbon Black Content	%	ASTM D 4218	2.0-3.0%						9,000 kg
	Oxidative Induction Time									
	(a)Standard OIT	min	ASTM D 3895	100 min.						90,000 kg
	(b)High Pressure OIT		ASTM D 5885	500 min.						
	Oven Aging at 85°C									
	Retained After 90 Days		ASTM D 5721							Per Each
	(a)Standard OIT -%	%	ASTM D 3895	55 %						Formulation
(b)High Pressure OIT -%		ASTM D 5885	80 %							
UV Resistance High Pressure OIT -% Retained After 1600hrs	%	ASTM D 5885	50%						Per Each Formulation	
Melt Index, Condition 190°C/2.16kg		ASTM D 1238	0.20g/10min							

## SHOUZHENG GEOMEMBRANCE SERIES

# WHY CHOOSE US



## 1. 100% CUSTOMER CUSTOMIZATION

Our company's goal is giving customers the exact product they're looking for.

## 2. CONTINUOUS PRODUCTION

Our production line works 24 hours a day and 365 days a year, so that we can meet the film needs of different regions and seasons around the world in a timely manner.

## 3. OED/ ODM SERVICE

We can also provide ODM and OEM services to business customers.

## 4. FAST FEEDBACK ON ANY QUESTIONS

We have a complete service system, regardless of whether you are our customer or not, we would love to discuss any issues with the film with you.

## 5. EXCELLENT TECHNOLOGY

Since Shouzheng was established, the film coverage area has exceeded 100,000 square meters, and we have rich production and practical experience. Our R&D center pays attention to communication and cooperation with external research departments and has established good cooperations with many universities.

## 6. STRICT QUALITY CONTROL PROCEDURES

The entire production workshop of Shouzheng implements 24-hour real-time monitoring to ensure the quality of products. The digital control of the automatic adjustment of deviations guarantee the consistency of product properties. Our QC department has an independent laboratory and complete film quality testing equipment, and adopts internationally leading testing standards.



## 7. SIMPLIFIED BUSINESS PROCESSES

### SHOUZHENG CUSTOMIZATION PROCESS



## 8. EMPLOYEE CARE

We treasure our people and we take good care of them. Caring is one of our core values and employee wellness is our prime concern.



# FAQ

## COMPANY

**Q: When was your company established?**

A: 1997.

**Q: What are your main products?**

A: Agricultural Films, Geomembrance and Packaging Films.

**Q: How many years have you been in the field?**

A: 30 years.

**Q: Where is your factory located?**

A: Zibo, Shandong, China.

**Q: Are you a trading company or manufacturer?**

A: We are manufacturer, we have 30 years of production experience.

**Q: May we visit your factory?**

A: Sure, you're welcome to our factory any time.

**Q: Do you have ISO certificate?**

A: Yes.

**Q: What is your monthly production capacity?**

A: 5,000 tons.

**Q: What is your yearly production capacity?**

A: 60,000 tons.

**Q: How many staff are there in your company?**

A: More than 200 staff.

**Q: How many production line do you have?**

A: More than 60 lines.

**Q: How many staff are there in your QC department?**

A: 12 staff and a quality testing lab.

**Q: How many R&D staff do you have?**

A: 24 staff and we have test field in our factory.

**Q: Why choose Shouzheng company?**

A: We use high-quality raw materials, 100% virgin PE and professional processing technology, we also have countless applications around the world. Plus, we have professional quality inspectors, you can also ask a third party to inspect the goods before delivery.



## PAYMENTS

**Q: What are the terms of payment?**

A: T/T, L/C, all support.

**Q: How much deposit does the customer need to pay?**

A: We accept 30% for the deposit.

**Q: Can we pay the balance before shipment?**

A: Sure.

## PACKAGING

**Q: How can your products packed?**

A: Our films could be packed in Rolls, Pallets, Ton Bags and Boxes.

**Q: Can we customize the packaging?**

A: Sure, we can design packaging for you.

**Q: How many fill a container?**

A: 12 tons for a 20HQ container, and 26 tons for a 40HQ container.

## CERTIFICATES

**Q: How often will you release a new product?**

A: Every 4-6 months.

**Q: Can you send me high resolution pictures of the products?**

A: Sure. Just ask our sales.

**Q: Do you have a video of your product?**

A: Of course, you can also follow us on YouTube, @SUMSIGHT Agricultural Film.

**Q: How often will you release a new product?**

A: Every 4-6 months.

**Q: Every 4-6 months.**

A: 750kg for one size.

## PRODUCTS

**Q: What are the lead time?**

A: Usually not exceeding 14 days.

**Q: What are the main components of your products?**

A: 100% virgin LLDPE, LDPE, MPE and HDPE.

**Q: Can you do ODM/OEM?**

A: Yes.

**Q: Can we get samples?**

A: Sure. We can supply the free samples.

**Q: How long can we expect to get samples?**

A: Samples will be sent out within 3-5 days.

## AFTER-SALE SERVICE

**Q: What is the procedure to make a claim?**

A: Firstly, please contact our salesperson and send photos and videos of the product. Subsequently, our company's QC will check the production records of the day and the samples left at that time. Afterwards, our R&D personnel will communicate with customers and we will be on-site if necessary, regardless of which country or region you are in the world.