



XIAMEN WELLGAIN GREENHOUSE

HEPP



目录

Catalog



- A CAD-TUV (Transparence)**
- B DAD-TUV (Light diffusion)**
- C CAG-UV (Transparence)**
- D CAG-UV (Light diffusion)**
- E High Transparency PO Film**
- F Light diffusion PO film**
- G Berry Only(Light Conversion PO Film)**
- H Black&white film**
- I Green&white film**
- J Films' Correct Installation and Use Guid**



五层共挤长寿防滴膜系列产品

Five Layer Co-extrusion Long Lifetime&Anti-dripping PE Film Series

It is suitable for the areas with strong illumination, warm climate, and need the function of anti - drip.

High quality PE Film - CAD-TUV (Transparent film) - product introduction

Thickness	Mechanical Property	Advantage
0.1mm	Tensile strength(TD/MD) $\geq 34/32$ N/mm ²	2 Years warranty
	Elongation(TD/MD) $\geq 710/660\%$	UV-transmittance (300-390nm) $\geq 60\%$
	Tearing Resistance(TD/MD) ≥ 10 gf/mic	Anti-dripping, Normal Thermal Insulation
	Dart Drop gr 350	High Strength ,High Light Transmittance, Enhance Photosynthesis
	Light transmittance $\geq 92\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%) ≤ 15	Width up to 20m, Length as customer request
0.12mm	Tensile strength(TD/MD) $\geq 34/32$ N/mm ²	3 Years warranty
	Elongation(TD/MD) $\geq 720/660\%$	UV-transmittance (300-390nm) $\geq 30\%$
	Tearing Resistance(TD/MD) ≥ 14 gf/mic	Anti-dripping, Normal Thermal Insulation
	Dart Drop gr 900	High Strength ,High Light Transmittance, Enhance Photosynthesis
	Light transmittance $\geq 91\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%) ≤ 15	Width up to 18m, Length as customer request
0.15mm	Tensile strength(TD/MD) $\geq 35/33$ N/mm ²	4 Years warranty
	Elongation(TD/MD) $\geq 760/690\%$	UV-transmittance (300-390nm) $\geq 20\%$
	Tearing Resistance(TD/MD) ≥ 15 gf/mic	Anti-dripping, Normal Thermal Insulation
	Dart Drop gr 1000	High Strength ,High Light Transmittance, Enhance Photosynthesis
	Light transmittance $\geq 91\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%) ≤ 15	Width up to 16m, Length as customer request
0.2mm	Tensile strength(TD/MD) $\geq 36/34$ N/mm ²	5 Years warranty
	Elongation(TD/MD) $\geq 780/700\%$	UV-transmittance (300-390nm) $\geq 10\%$
	Tearing Resistance(TD/MD) ≥ 18 gf/mic	Anti-dripping, Normal Thermal Insulation
	Dart Drop gr 1200	High Strength ,High Light Transmittance, Enhance Photosynthesis
	Light transmittance $\geq 90\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%) ≤ 15	Width up to 14m, Length as customer request



五层共挤长寿防滴膜系列产品

Five Layer Co-extrusion Long Lifetime&Anti-dripping PE Film Series

It is suitable for planting high-grade flowers, berries and other crops with strong illumination that do not like strong light and need the function of drip proof. It can change the direct light through to achieve scattering effect, make the crops evenly colored and avoid burning of leaves and fruits.

High quality PE Film - DAD-TUV(Light diffusion film) - product introduction

Thickness	Mechanical Property		Advatage
0.1mm	Tensile strength(TD/MD)	≥34/32 N/mm2	2 Years warranty
	Elongation(TD/MD)	≥710/660%	UV-transmittance(300-390nm) ≥60%
	Traring Resistance(TD/MD)	≥10gf/mic	Anti-dripping,Normal Thermal Insulation
	Dart Drop gr	350	High Strength ,Light-scattering effect,High Light Transmittance,
	Light transmittance	≥88%	Anti-dust, Long aging resistance, Pesticide resistance
	Light-scattering effect (%)	≥50	Width up to 20m,Length as customer request
0.12mm	Tensile strength(TD/MD)	≥34/32 N/mm2	3 Years warranty
	Elongation(TD/MD)	≥720/660%	UV-transmittance(300-390nm) ≥30%
	Traring Resistance(TD/MD)	≥14gf/mic	Anti-dripping,Normal Thermal Insulation
	Dart Drop gr	900	High Strength ,Light-scattering effect,High Light Transmittance,
	Light transmittance	≥87%	Anti-dust, Long aging resistance, Pesticide resistance
	Light-scattering effect (%)	≥60	Width up to 18m,Length as customer request
0.15mm	Tensile strength(TD/MD)	≥35/33 N/mm2	4 Years warranty
	Elongation(TD/MD)	≥760/690%	UV-transmittance(300-390nm) ≥20%
	Traring Resistance(TD/MD)	≥15gf/mic	Anti-dripping,Normal Thermal Insulation
	Dart Drop gr	1000	High Strength ,Light-scattering effect,High Light Transmittance,
	Light transmittance	≥85%	Anti-dust, Long aging resistance, Pesticide resistance
	Light-scattering effect (%)	≥75	Width up to 16m,Length as customer request
0.2mm	Tensile strength(TD/MD)	≥36/34 N/mm2	5 Years warranty
	Elongation(TD/MD)	≥780/700%	UV-transmittance(300-390nm) ≥10%
	Traring Resistance(TD/MD)	≥18gf/mic	Anti-dripping,Normal Thermal Insulation
	Dart Drop gr	1200	High Strength ,Light-scattering effect,High Light Transmittance,
	Light transmittance	≥84%	Anti-dust, Long aging resistance, Pesticide resistance
	Light-scattering effect (%)	≥80	Width up to 14m,Length as customer request



五层共挤长寿系列产品

Five Layer Co-extrusion Long Lifetime Film Series

Suitable for all parts of the world, used for dust, rain, no need for anti - drip function, and the requirement for light transmittance is high.

High quality PE Film - CAG-UV (Transparent film) - product introduction

Thickness	Mechanical Property		Advantage
0.08mm	Tensile strength(TD/MD)	≥32/30 N/mm ²	2 Years warranty
	Elongation(TD/MD)	≥700/650%	UV-transmittance(300-390nm) ≥80%
	Traring Resistance(TD/MD)	≥8gf/mic	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Dart Drop gr	200	Anti-dust, Long aging resistance, Pesticide resistance
	Light transmittance	≥93%	Width up to 20m,Length as customer request
	Haze (%)	≤15	
0.1mm	Tensile strength(TD/MD)	≥34/32 N/mm ²	3 Years warranty
	Elongation(TD/MD)	≥710/660%	UV-transmittance(300-390nm) ≥60%
	Traring Resistance(TD/MD)	≥10gf/mic	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Dart Drop gr	350	Anti-dust, Long aging resistance, Pesticide resistance
	Light transmittance	≥92%	Width up to 20m,Length as customer request
	Haze (%)	≤15	
0.12mm	Tensile strength(TD/MD)	≥34/32 N/mm ²	3 Years warranty
	Elongation(TD/MD)	≥720/660%	UV-transmittance(300-390nm) ≥30%
	Traring Resistance(TD/MD)	≥14gf/mic	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Dart Drop gr	900	Anti-dust, Long aging resistance, Pesticide resistance
	Light transmittance	≥91%	Width up to 18m,Length as customer request
	Haze (%)	≤15	
0.15mm	Tensile strength(TD/MD)	≥35/33 N/mm ²	4 Years warranty
	Elongation(TD/MD)	≥760/690%	UV-transmittance(300-390nm) ≥30%
	Traring Resistance(TD/MD)	≥15gf/mic	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Dart Drop gr	1000	Anti-dust, Long aging resistance, Pesticide resistance
	Light transmittance	≥91%	Width up to 16m,Length as customer request
	Haze (%)	≤15	
0.2mm	Tensile strength(TD/MD)	≥36/34 N/mm ²	5 Years warranty
	Elongation(TD/MD)	≥780/700%	UV-transmittance(300-390nm) ≥10%
	Traring Resistance(TD/MD)	≥18gf/mic	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Dart Drop gr	1200	Anti-dust, Long aging resistance, Pesticide resistance
	Light transmittance	≥90%	Width up to 14m,Length as customer request
	Haze (%)	≤15	



五层共挤长寿系列产品

Five Layer Co-extrusion Long Lifetime Film Series

It is suitable for crops that do not need anti-drip function and do not like strong light. It can change the direct light through to achieve scattering effect, make the crops evenly colored and avoid burning of leaves and fruits.

High quality PE Film - DAG-TUV(Light diffusion film) - product introduction

Thickness	Mechanical Property		Advatage
0.1mm	Tensile strength(TD/MD)	≥34/32 N/mm2	3 Years warranty
	Elongation(TD/MD)	≥710/660%	UV-transmittance(300-390nm) ≥60%
	Traring Resistance(TD/MD)	≥10gf/mic	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Dart Drop gr	350	Anti-dust, Long aging resistance, Pesticide resistance
	Light transmittance	≥88%	Width up to 20m,Length as customer request
	Light-scattering effect (%)	≥50	
0.12mm	Tensile strength(TD/MD)	≥34/32 N/mm2	3 Years warranty
	Elongation(TD/MD)	≥720/660%	UV-transmittance(300-390nm) ≥30%
	Traring Resistance(TD/MD)	≥14gf/mic	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Dart Drop gr	900	Anti-dust, Long aging resistance, Pesticide resistance
	Light transmittance	≥87%	Width up to 18m,Length as customer request
	Light-scattering effect (%)	≥60	
0.15mm	Tensile strength(TD/MD)	≥35/33 N/mm2	4 Years warranty
	Elongation(TD/MD)	≥760/690%	UV-transmittance (300-390nm) ≥30%
	Traring Resistance(TD/MD)	≥15gf/mic	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Dart Drop gr	1000	Anti-dust, Long aging resistance, Pesticide resistance
	Light transmittance	≥85%	Width up to 16m,Length as customer request
	Light-scattering effect (%)	≥75	
0.2mm	Tensile strength(TD/MD)	≥36/34 N/mm2	5 Years warranty
	Elongation(TD/MD)	≥780/700%	UV-transmittance (300-390nm) ≥10%
	Traring Resistance(TD/MD)	≥18gf/mic	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Dart Drop gr	1200	Anti-dust, Long aging resistance, Pesticide resistance
	Light transmittance	≥84%	Width up to 14m,Length as customer request
	Light-scattering effect (%)	≥80	



五层共挤PO膜系列产品

Five Layer Co-extrusion Long Lifetime&Anti-dripping PO Film Series

It is suitable for crops with permanent drip and fog prevention function, and has high requirements for light transmittance and heat preservation.

High quality PO Film - High Transparency PO Film- product introduction

Thickness	Mechanical Property		Advantage
0.1mm	Tensile strength(TD/MD)	≥34/33 N/mm ²	2 Years warranty
	Elongation(TD/MD)	≥720/660%	UV-transmittance (300-390nm) ≥60%
	Traring Resistance(TD/MD)	≥10gf/mic	Permanent anti - drip, anti - fog and film service life synchronization
	Dart Drop gr	350	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Light transmittance	≥93%	High Thermal Insulation,Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%)	≤10	Width up to 18m,Length as customer request
0.12mm	Tensile strength(TD/MD)	≥35/33N/mm ²	3 Years warranty
	Elongation(TD/MD)	≥730/670%	UV-transmittance (300-390nm) ≥30%
	Traring Resistance(TD/MD)	≥14gf/mic	Permanent anti - drip, anti - fog and film service life synchronization
	Dart Drop gr	900	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Light transmittance	≥92%	High Thermal Insulation,Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%)	≤12	Width up to 16m,Length as customer request
0.15mm	Tensile strength(TD/MD)	≥35/33 N/mm ²	4 Years warranty
	Elongation(TD/MD)	≥770/710%	UV-transmittance (300-390nm) ≥20%
	Traring Resistance(TD/MD)	≥16gf/mic	Permanent anti - drip, anti - fog and film service life synchronization
	Dart Drop gr	1000	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Light transmittance	≥92%	High Thermal Insulation,Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%)	≤13	Width up to 15m,Length as customer request
0.2mm	Tensile strength(TD/MD)	≥36/34 N/mm ²	5 Years warranty
	Elongation(TD/MD)	≥780/710%	UV-transmittance (300-390nm) ≥10%
	Traring Resistance(TD/MD)	≥18gf/mic	Permanent anti - drip, anti - fog and film service life synchronization
	Dart Drop gr	1200	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Light transmittance	≥91%	High Thermal Insulation,Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%)	≤13	Width up to 14m,Length as customer request



五层共挤PO膜系列产品

Five Layer Co-extrusion Long Lifetime&Anti-dripping PO Film Series

It is suitable for planting high-grade flowers, berries and other crops with strong light, which do not like strong light and need permanent drip and mist proof functions. It can change the direct light through to achieve scattering effect, make the crops evenly colored, and avoid burning of leaves and fruits.

High quality PO Film - Light diffusion PO film - product introduction

Thickness	Mechanical Property	Advantage
0.1mm	Tensile strength(TD/MD) $\geq 34/33$ N/mm ²	2 Years warranty
	Elongation(TD/MD) $\geq 720/660\%$	UV-transmittance(300-390nm) $\geq 60\%$
	Traring Resistance(TD/MD) ≥ 10 gf/mic	Permanent anti - drip, anti - fog and film service life synchronization
	Dart Drop gr 350	High Strength ,Light-scattering effect,High Light Transmittance,
	Light transmittance $\geq 89\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Light-scattering effect (%) ≥ 50	Width up to 18m,Length as customer request
0.12mm	Tensile strength(TD/MD) $\geq 35/33$ N/mm ²	3 Years warranty
	Elongation(TD/MD) $\geq 730/670\%$	UV-transmittance (300-390nm) $\geq 30\%$
	Traring Resistance(TD/MD) ≥ 14 gf/mic	Permanent anti - drip, anti - fog and film service life synchronization
	Dart Drop gr 900	High Strength ,Light-scattering effect,High Light Transmittance,
	Light transmittance $\geq 88\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Light-scattering effect (%) ≥ 60	Width up to 16m,Length as customer request
0.15mm	Tensile strength(TD/MD) $\geq 35/33$ N/mm ²	4 Years warranty
	Elongation(TD/MD) $\geq 770/710\%$	UV-transmittance(300-390nm) $\geq 20\%$
	Traring Resistance(TD/MD) ≥ 16 gf/mic	Permanent anti - drip, anti - fog and film service life synchronization
	Dart Drop gr 1000	High Strength ,Light-scattering effect,High Light Transmittance,
	Light transmittance $\geq 87\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Light-scattering effect (%) ≥ 75	Width up to 15m,Length as customer request
0.2mm	Tensile strength(TD/MD) $\geq 36/34$ N/mm ²	5 Years warranty
	Elongation(TD/MD) $\geq 780/710\%$	UV-transmittance(300-390nm) $\geq 10\%$
	Traring Resistance(TD/MD) ≥ 18 gf/mic	Permanent anti - drip, anti - fog and film service life synchronization
	Dart Drop gr 1200	High Strength ,Light-scattering effect,High Light Transmittance,
	Light transmittance $\geq 85\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Light-scattering effect (%) ≥ 80	Width up to 14m,Length as customer request



五层共挤PO膜系列产品

Five Layer Co-extrusion Long Lifetime&Anti-dripping PO Film Series

Suitable for strawberry, cherry, nectarine, blueberry and other crops with high economic value.

High quality PO Film - Berry Only(Light Conversion PO Film) - product introduction

Thickness	Mechanical Property	Advatage
0.1mm	Tensile strength(TD/MD) $\geq 34/33$ N/mm ²	2 Years warranty
	Elongation(TD/MD) $\geq 720/660\%$	Transfer UV into red or blue light,uniform color,flow into market early
	Traring Resistance(TD/MD) ≥ 10 gf/mic	High Thermal Insulation,Permanent Anti-fogging and Anti-dripping
	Dart Drop gr 350	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Light transmittance $\geq 93\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%) ≤ 10	Width up to 18m,Length as customer request
0.12mm	Tensile strength(TD/MD) $\geq 35/33$ N/mm ²	3 Years warranty
	Elongation(TD/MD) $\geq 730/670\%$	Transfer UV into red or blue light,uniform color,flow into market early
	Traring Resistance(TD/MD) ≥ 14 gf/mic	High Thermal Insulation,Permanent Anti-fogging and Anti-dripping
	Dart Drop gr 900	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Light transmittance $\geq 92\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%) ≤ 12	Width up to 16m,Length as customer request
0.15mm	Tensile strength(TD/MD) $\geq 35/33$ N/mm ²	4 Years warranty
	Elongation(TD/MD) $\geq 770/710\%$	Transfer UV into red or blue light,uniform color,flow into market early
	Traring Resistance(TD/MD) ≥ 16 gf/mic	High Thermal Insulation,Permanent Anti-fogging and Anti-dripping
	Dart Drop gr 1000	High Strength ,High Light Transmittance,Enhance Photosynthesis
	Light transmittance $\geq 92\%$	Anti-dust, Long aging resistance, Pesticide resistance
	Haze (%) ≤ 13	Width up to 15m,Length as customer request



Black&White film

Suitable for fungus cultivation, poultry breeding and aquaculture.

High quality film - Black&white film product introduction

Thickness	Mechanical Property	Advatage
0.13mm	Tensile strength(TD/MD) $\geq 35/32$ N/mm ²	23 Years warranty
	Elongation(TD/MD) $\geq 750/700\%$	Black layer block the light,while layer reflect the light
	Traring Resistance(TD/MD) ≥ 12 gf/mic	Sunlight resistance,Migration resistance
	Dart Drop gr 900	Width up to 16m,Length as customer request
	Light transmittance 0	
	Haze (%) 100	
0.2mm	Tensile strength(TD/MD) $\geq 38/36$ N/mm ²	25 Years warranty
	Elongation(TD/MD) $\geq 750/700\%$	Black layer block the light,while layer reflect the light
	Traring Resistance(TD/MD) ≥ 18 gf/mic	Sunlight resistance,Migration resistance
	Dart Drop gr 1200	Width up to 14m,Length as customer request
	Light transmittance 0	
	Haze (%) 100	



Green&White film

Suitable for the cultivation of fungi with certain requirements for light

High quality film - Green&white film product introduction

Thickness	Mechanical Property	Advatage
0.13mm	Tensile strength(TD/MD) ≥35/32 N/mm2	3 Years warranty
	Elongation(TD/MD) ≥750/700%	White layer reflect the light,Green layer soften the light
	Traring Resistance(TD/MD) ≥12gf/mic	Sunlight resistance,Migration resistance
	Dart Drop gr 900	Width up to 16m,Length as customer request
	Light transmittance 10 %	
	Haze (%) ≥90	
0.2mm	Tensile strength(TD/MD) ≥38/36 N/mm2	5 Years warranty
	Elongation(TD/MD) ≥750/700%	White layer reflect the light,Green layer soften the light
	Traring Resistance(TD/MD) ≥18gf/mic	Sunlight resistance,Migration resistance
	Dart Drop gr 1200	Width up to 14m,Length as customer request
	Light transmittance 0%	
	Haze (%) 100	



薄膜的正确安装和使用指导

Films' Correct Installation and Use Guid

- 1、 Shall be stored in shade and dry place, avoid direct sun and rain before installation and use
- 2、 Need to check the contact surface between the steel or wood and the films if there are any sharp spines or raised part, make sure every part without any rust, wrap the sharp or raised part with PE films to avoid film s damage
- 3、 Check the ground and surroundings to avoid puncture or scratch of the films during installation
- 4、 Avoid installing the films during overheating weather to prevent the films from thermal expansion and contraction which wound make a bad influence on films function. Ambient temperature from 15°C to 28°C is recommended
- 5、 Need to tense and flat the films to avoid wrinkle which would stop the flowing of water during the installation
- 6、 Do not make the inner layer outside, according to the installation guid, make sure the word is upside when you are reading outside the greenhouse
- 7、 Do not walk or leave any things on the films to prevent films from damage
- 8、 Keep the crops or other facility from directly contacting the films which would damage the films
- 9、 Keep the shading net from directly contacting the films which would damage the films after exposing to the hot sun, put the shading net on the pillars which is higher than the greenhouse roof
- 10、 The pesticide and the rubber and the like which have the chemical element S and Cl would accelerate the aging of the films, Try to avoid spraying the pesticide directly on the films, The warranty doesn't cover the premature aging caused by the exceeding residue of pesticide (Limit of S<800ppm, Limit of Cl <400ppm)
- 11、 Avoid sulphur fumigation to prevent the premature aging during the warranty time
- 12、 The settlement with card slot, snap rings and compression card of the film should keep clean and good condition, the war rant doesn't cover the tear caused by overpress around card slot, snap rings and compression card of the film
- 13、 Need to tense and flat the film during the exchanging of the season, expecially after the strong breeze