



TARIMSAL FİLM ÇÖZÜMLERİ  
AGRICULTURAL FILM SOLUTIONS

## SERA PLASTİK ÜRÜN AİLESİ

PRODUCTS

### SERA ÖRTÜLERİ

#### GREENHOUSE COVERS

- Sera Classic (9) (12) (24) (36) (60)  $m^2/m$
- Sera Termal (9) (12) (24) (36) (60)
- Sera Pro (12) (24) (36) (60)
- Sera Performa (12) (24) (36) (60)
- Maxi Cover (24) (36) (60)
- Maxi Cover Lux (24) (36) (60)
- Sera Thermal Antalya (36) (60)
- Sera Muz (36) (60)

### MALÇ ÖRTÜLERİ

#### MULCH COVERS

- Şeffaf Malç
- Transparent Mulch
- Siyah Malç
- Black Mulch
- Süper Malç
- Super Mulch
- Siyah-Beyaz Malç
- Black-White Mulch
- Siyah-Gümüş Gri Malç
- Black-Silver Grey Mulch

### SİLAJ ÖRTÜLERİ

#### SILAGE COVERS



### ISI PERDELERİ

#### THERMAL SCREEN

- Classic Energy
- Thermal Energy
- Pro Energy
- Performa Energy
- Performa Energy Lüx
- Max Energy
- Max Energy Lüx

### SOLARİZASYON ÖRTÜLERİ

#### SOLARISATION COVERS

- Yeni Nesil İnce Örtü
- Yeni Nesil Sera Solarize Film

### FİDE ÜRETİM TORBALARI

#### SEEDLING BAGS

### SULAMA ve HAVA HORTUMLARI

#### IRRIGATION and AIR HOSES

### GROWBAG

#### TOPRAKSIZ TARIM TORBALARI

#### GROWBAG

#### SOILLESS AGRICULTURAL BAGS



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## HAYATI KAPLIYORUZ

Sera plastik, plastik ürünler üretmek amacıyla 1969 yılında kurulmuştur, 2000 yılından itibaren tarımsal film üretimine致力venen Sera Plastik bugün sektörün ihtiyaç duyduğu her türlü tarımsal film (sera örtüleri, solarizasyon ve malç filmleri, silaj örtüleri, ısı perdeleri) ve tarımsal ambalaj ürünlerini (taze sebze - meyve torbaları, fide üretim torbaları, silaj torbaları, topiksiz tarım torbaları) üretimiini Antalya Organized Sanayi Bölgesi'nde kurulmuş olan 12,500m<sup>2</sup>'si kapalı olmak üzere toplam 55,000m<sup>2</sup>lik tesisinde gerçekleştiriyor.

Üretim teknoloji uygulamalarında sektörün lideri olan Sera Plastik 2006 yılında yaptığı co-extrusion film üretim hattını yarattı ile Türkiye'de 3 katlı tarımsal film üretimi yapan ilk firma olmuştur.

Ürün ve hizmet çeşitliliği konusunda ister amatör seviyede ister profesyonel seviyede tarım işletmesi olsun her oljekekteki müsterimiz aynı ürün çeşitliliğini ve hizmet kalitesini sunmak prensibimizdir.

48 yıllık film işleme tecrübemiz, konusunda uzman çalışanlarımız ve üretimde kullandığımız ileri teknoloji sayesinde verimlilik yönelik ürün geliştirmeler ile kullanıcılarımıza değer zincirinde doğru sonuçlar sağlamaktaız.

Örtü altı tarima sağladığımız katkıların gelecekte de artarak devam etmesi konusunda sorumluluğumuzun farkındayız.

## ÜRETİM TEKNOLOJİSİ

Günümüzde yüksek kaliteli tarımsal filmler birbirinden çok farklı özelliklere sahip hammadde ve katkılarla üretilmektedir.

Klasik üretim teknolojisi (monoextrüzyon) ile film üretirken kullanılan hammadde ve katkılar birbirleriyle uyumsuzluğa gösterek filmin kalitesinde düşüklüğe sebep olabilir. Bu kalitesizlik filmin kullanımı sırasında mahşur verimliliğini olumsuz etkiler.

Yeni nesil üretim teknolojisinde (co-extrüzyon) ise film çok katlı olarak üretilir ve her katın ayrı özellikte üretilmesi mümkün olur.

Uygun katlarda doğru hammadde ve katkıların doğru formülle üretilmesi ürünün uzun süre yüksek kaliteli ve istenilen özellikte olmasını sağlar.

Makine parkımızda bulunan co-extrüzyon teknolojisine sahip üretim hattıyla tarımsal film ürünlerimizi 3 katlı olarak üretemekteyiz.

## PRODUCTION TECHNOLOGY

Today, high quality agricultural films are produced with varying features, raw materials and additives.

Raw materials and additives used for production of film with traditional production technology (i.e. mono-extrusion) may have incompatibility with each other and thus, result in poor quality films, which in turn affect the yield of the crops negatively.

On the other hand, films are produced as multilayered in the new generation production technology (i.e. co-extrusion) which allows each layer to have specific features.

Production of films with suitable number of layers, having proper additives in proper formulas, leads to high quality products with appropriate features.

We are producing our agricultural film products as 3-layered, using production lines with co-extrusion technology included in our machinery.



## WE COVER THE LIFE

Sera Plastik was established in 1969 to produce plastic products. The company has focused on the production of agricultural films since 2000, and is today able to produce any kind of agricultural films (greenhouse covers, solarisation and mulch films, silage covers and thermal screens) and agricultural packages (fresh vegetable - fruit bags, seedling bags, silage bags, soilless agricultural bags) needed by the sector at its plant having an area of 55,000 sqm with an indoor area of 12,500 sqm in Organised industrial Zone of Antalya.

Leader of the sector in the field of production technology applications, Sera Plastik is the first company of Turkey producing 3-layer agricultural films, thanks to the its investment in co-extrusion film production lines in 2006.

Our principle is to provide the same service quality and product ranges to all customers in any scale, whether an amateur producer or a professional agricultural plant.

With its 48-year experience in film processing, specialist staff members and advanced technology that it uses in production, our company develops products serving to enhance efficiency, thereby providing added value to its customers.

We are aware of our responsibility for increasingly continuation of our contribution to the greenhouse cultivation in the future.



## ÜRÜN KATALOĞU

### PRODUCT CATALOGUE

### HAYATI KAPLIYORUZ WE COVER THE LIFE

444

7372

[www.seraplastik.com.tr](http://www.seraplastik.com.tr)

[sera@seraplastik.com.tr](mailto:sera@seraplastik.com.tr)

Organize Sanayi Bölgesi  
2. Kışım 25. Cd. No:7  
Döşemealtı Antalya - Türkiye

**SERA ÖRTÜLERİ / GREENHOUSE COVERS**

**SERA CLASSIC**



9 12 24 36 60 | AY MONTH

Yüksek ışık geçirgenliği, mukavemet ve ultraviyole dayanımı gösteren sera örtüleridir.  
High light transparency, high strength and ultraviolet resistance greenhouse cover films.

| İÇERİK         |     |
|----------------|-----|
| Ultraviyole    | ✓   |
| Antibakteriyel | ✓   |
| Antioksidan    | ✓   |
| KALINLIK       |     |
| 9 Ay           | 100 |
| 12 Ay          | 100 |
| 24 Ay          | 150 |
| 36 Ay          | 180 |
| 60 Ay          | 200 |

μ Mikron

**SERA THERMAL SERA THERMAL LUX**



9 12 24 36 60 | AY MONTH

Termal özelliğinin yanı sıra dengeli ışık dağılımı ve mukavemet artırıcı özellikleri sahip sera örtüleridir.  
High light transparency, high strength and ultraviolet resistance greenhouse cover films.

**SERA PRO**



12 24 36 60 | AY MONTH

Damlatmama ve mukavemet artırıcı özellikleri sahip sera örtüleridir.  
Greenhouse cover film with thermal effect, optimal light diffusion and high strength.

**SERA PERFORMA SERA PERFORMA LUX**



12 24 36 60 | AY MONTH

Termal koruma, damlatmama, optimum ışık dağılımı ve yüksek mukavemeti sahip sera örtüleridir.  
Greenhouse cover film with anti drip effect and high strength.

**SERA THERMAL ANTALYA**



36 | AY MONTH

Dengeli ışık yalıtı, maksimum thermal ve ısı barteri özellikleri ile Antalya iklimi için geliştirilmiş sera örtüleridir.  
Greenhouse cover film with balanced light isolation, maximum thermal and heat barrier is developed for Antalya climate.

**MAXI COVER MAXI COVER LUX\***



24 36 60 | AY MONTH

Sera içi iklim koşullarının daha hassas yönlendirilmesini sağlayan, yüksek ışık geçirgenliği sahip sera örtüleridir.  
Greenhouse cover film with better climate regulation inside, light transparency with thermal effect, anti drip and anti fog effect, anti dust effect and with high strength.

**1. OPERATING INSTRUCTIONS**

The life span of Agricultural Films means the period of their resistance to the degrading effect of the sunlight (UV degradation). Specified solar resistance periods are valid for 140 kJ/year. Life span of an agricultural film depends on the conditions of production as well as the manner of application. The following instructions must be observed to get the highest yield from the agricultural films. The agricultural films that we produce are warranted for the period specified on the product against degradation due to the damaging effects of the sunlight only if the following instructions are observed. User should determine the life span, optional features and thickness of the product considering the climate conditions of the area where the agricultural film will be used, type of construction and properties of the crop. Correctness of the order should be checked at the time of purchase. Product details are stated on the product label. Agricultural films should be stored in their original packages in a cool and dry environment away from sunlight. Rolls should be stored horizontally on a smooth surface. Storage period should not exceed 6 months. Rolls should not be moved by pulling or dragging on the floor. In both cases where repair is not possible, the user shall be obliged to return the faulty product to Sera Plastik within 15 days after the film is delivered to them for compensation purpose. Retrospective complaints which may be raised after the expiry of the life span of the film shall not be taken into account. If the greenhouse construction is metal (iron, galvanised, steel, etc.), all points of the construction that will contact the greenhouse cover should be smooth, burr-free and painted with water-based opaque white paint. For preventing any deformation that may be caused by heat, the surfaces of the greenhouse construction that may contact with the greenhouse cover should be sheathed with a polyethylene based material. If the greenhouse construction is wooden, its surface should be planed, and its sharp corners should be smoothed out and deburred. Waste oil or oil-based agents should not be applied onto the wood. At high temperatures, wood expels resin, which turns diminishes the life span of the greenhouse cover. For greenhouses with wood constructions, greenhouse covers with a life span of maximum 36 months should be used. Greenhouse cover should be installed in the early morning, avoiding from high temperatures (recommended temperature range is between 15°C and 22°C), preferably in a windless time. Agricultural films should be rolled out on a smooth and clean surface.

**5. OPTIONAL FEATURES**

Effectiveness periods of the features described in this section start with the production. Amount of compensation that may arise out of any fault in the optional feature shall be limited to the amount paid for the option purchased.

**5.1. Thermal (IR):** Helps slower cooling of the greenhouse in night time, which has warmed by sun lights during the day. Minimizing the heat dissipation protects the crop against any risk of freezing which may cause any sudden decrease of temperature. Reducing the temperature difference between the day time and night time improves productivity. It decreases the costs on the plant and saves on heating costs of the greenhouse. IR additive is added with the film. IR additive is added to the film at +5°C, depending on the greenhouse construction, status of the wind, amount of moisture in the greenhouse and in the environment, irrigation regime and water retention capacity of the crop. Unless any special request provided otherwise, products with thermal (IR) additive are produced with the feature of Light Diffuser.

**5.2. AntiDust (AT):** This additive ensures that dust stuck onto the outer surface of the plastic can be easily removed.

**5.3. Light Diffuser (LD):** This additive ensures the sun rays to be reflected and diffused when they enter into the greenhouse. It thus prevents plants to create shadow for each other and protects the crop from the scorching effect of the sun in sunny times. It helps the growth of plants and fruits. Unless any special request provided otherwise, the light diffuser additive provides light diffusion between 40% and 70%, depending on the film thickness.

**5.4. AntiMist (AV):** This additive binds the insects in the greenhouse such as whitefly and leaf beetle, preventing fungal growth or virus to spread. It increases efficiency, enhances the quality of the crop, and minimizes the need for pesticides.

**5.5. AntiFog (AF):** After the application of any pesticide to the plants, the greenhouse should be ventilated. Maximum amounts of sulphur and chlorine against which agricultural films may preserve their resistance are specified below.

**5.6. Maximum Allowed Amounts of Sulphur and Chlorine**

| Life span of film | Sulphur ppm/month | Chlorine ppm/month | ppm/total | ppm/month | ppm/total |
|-------------------|-------------------|--------------------|-----------|-----------|-----------|
| 24 months         | 14,6              | 350                | 2,5       | 60        |           |
| 36 months         | 12,5              | 450                | 2,22      | 80        |           |

Please see the optional features/chemical resistance section for any higher chemical resistance.

**2. DEFINITION OF DEGRADATION**

An agricultural film is considered degraded when its elongation strain decreases below 50% of its original elongation strain at the time of the production.

**3. NOTIFICATION OF PREMATURE DEGRADATION**

In the event of any premature degradation of the film, please notify Sera Plastik of the case via the dealer from whom the film was purchased or through e-mail: [serasaplastik.com](mailto:serasaplastik.com) or on phone number of 0 242 259 19 39 or fax number of 0 242 259 19 10. We will visit the site where the films are located to determine the cause of the problem. During the visit, you will be required to provide the following details of the film:

**5.6. AntiMist(AMT):** This additive helps alleviate the misting problem that occurs as a side effect of greenhouse covers where AntiMist additive is used. AntiMist affects the efficiency and effectiveness period of AntiFog negatively and thus reduces the efficiency and shortens the effectiveness period of AntiFog.

**5.7. Chemical Resistance (KD):** This is an additive that ensures the greenhouse cover to be more resistant against sulphur and chlorine contained by the pesticides. Maximum amounts of sulphur and chlorine against which agricultural films with chemical resistance additive may preserve their resistance are specified below.

| Maximum Allowed Amounts of Sulphur and Chlorine |                   |                   |
|---|-------------------|-------------------|
| Life span of film                               | Life span of film | Life span of film |
| ppm/month                                       | ppm/total         | ppm/month         |

24 months 62,5 1000 4,17 100  
36 months 55,6 1500 4,17 150

Please see the optional features/chemical resistance section for any higher chemical resistance.

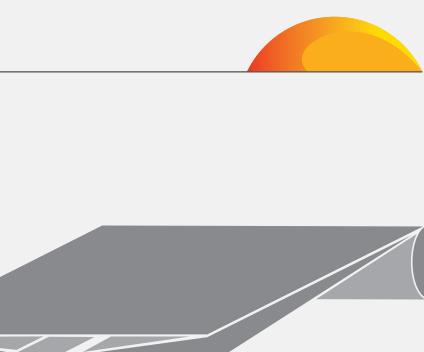
#### 6. EXCEPTIONS

Sera Plastik shall not have any liability for compensation or otherwise if any premature degradation is caused by any of the following reasons:

- Excessive climatic movements. Hail, severe winds, hurricane, etc.
- Accident disasters. Fire, flood, landslide, earthquake, etc.
- External effects. Tearing, cutting and perforating, etc.
- Finding the residual of sulphur/chlorine above the allowed amount on the film.
- Failing to prepare the construction in compliance with the instructions stated in the section of construction application recommendations.
- Failure to send the premature degradation notice at all or in due time and/or to provide conditions suitable for the inspections at the site.
- Use of greenhouse cover with a life span longer than 36 months for greenhouses made of wood.
- Any tear or wear not caused by UV degradation.

## SERA ÖRTÜSÜ KATLAMA ÇEŞİTLERİ

### GREENHOUSE OVERLAY FOLDING TYPES



Tek Kat / Sheet (1 S)

In both cases where repair is not possible, the user shall be obliged to return the faulty product to Sera Plastik within 15 days after the film is delivered to them for compensation purpose.

Retrospective complaints which may be raised after the expiry of the life span of the film shall not be taken into account.

Sera Plastik does not provide any warranty or shall have no responsibility for any replacement cost (material, labour costs, etc. incurred for replacement of the greenhouse film) or any loss of income, degradation of crop or any other consequential losses.

Liability under warranty shall be limited to the amount paid for the film.



4e Katlama Kapalı / Foldx4 Open (4 F)

In all cases where repair is not possible, the user shall be obliged to return the faulty product to Sera Plastik within 15 days after the film is delivered to them for compensation purpose.

Retrospective complaints which may be raised after the expiry of the life span of the film shall not be taken into account.

Sera Plastik does not provide any warranty or shall have no responsibility for any replacement cost (material, labour costs, etc. incurred for replacement of the greenhouse film) or any loss of income, degradation of crop or any other consequential losses.

Liability under warranty shall be limited to the amount paid for the film.



Kapali Tüp / Closed Tube (2 T)

In all cases where repair is not possible, the user shall be obliged to return the faulty product to Sera Plastik within 15 days after the film is delivered to them for compensation purpose.

Retrospective complaints which may be raised after the expiry of the life span of the film shall not be taken into account.

Sera Plastik does not provide any warranty or shall have no responsibility for any replacement cost (material, labour costs, etc. incurred for replacement of the greenhouse film) or any loss of income, degradation of crop or any other consequential losses.

Liability under warranty shall be limited to the amount paid for the film.



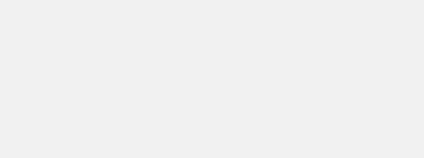
Bir Taraflı Açıklık Tüp / Tube Open One Side (2 F)

In all cases where repair is not possible, the user shall be obliged to return the faulty product to Sera Plastik within 15 days after the film is delivered to them for compensation purpose.

Retrospective complaints which may be raised after the expiry of the life span of the film shall not be taken into account.

Sera Plastik does not provide any warranty or shall have no responsibility for any replacement cost (material, labour costs, etc. incurred for replacement of the greenhouse film) or any loss of income, degradation of crop or any other consequential losses.

Liability under warranty shall be limited to the amount paid for the film.



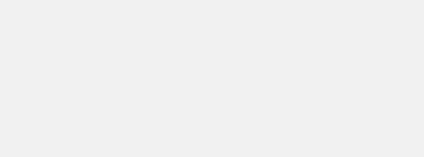
4e Katlama Tek Taraflı Açıklık / Foldx4 Open, One Side Open (4 F)

In all cases where repair is not possible, the user shall be obliged to return the faulty product to Sera Plastik within 15 days after the film is delivered to them for compensation purpose.

Retrospective complaints which may be raised after the expiry of the life span of the film shall not be taken into account.

Sera Plastik does not provide any warranty or shall have no responsibility for any replacement cost (material, labour costs, etc. incurred for replacement of the greenhouse film) or any loss of income, degradation of crop or any other consequential losses.

Liability under warranty shall be limited to the amount paid for the film.



8e Katlama / Foldx8 (8 F)

In all cases where repair is not possible, the user shall be obliged to return the faulty product to Sera Plastik within 15 days after the film is delivered to them for compensation purpose.

Retrospective complaints which may be raised after the expiry of the life span of the film shall not be taken into account.

Sera Plastik does not provide any warranty or shall have no responsibility for any replacement cost (material, labour costs, etc. incurred for replacement of the greenhouse film) or any loss of income, degradation of crop or any other consequential losses.

Liability under warranty shall be limited to the amount paid for the film.

\*Sera Thermal, Sera Performa ve Maxi Cover Lux, ürünlerinde Clear IR katkısı kullanılarak daha mükemmel ışık geçirgenliği sağlanmaktadır. Sera içi iklim koşullarının daha hassas yönlendirilmesini sağlayan, yüksek ışık geçirgenliğine sahip, termal etkili, damlatmama özellikli, sis oluşumu engelleyen, yüksek mukavemetli ve toz tutmayan sera örtüleridir.

\*Sera Thermal, Sera Performa and Maxi Cover Lux Greenhouse cover films are with Clear IR effect which gives better light transparency, with better climate regulation inside, high light permeability, with thermal effect, anti drip and anti fog effect, anti dust effect and with high strength.

[www.seraplastik.com.tr](http://www.seraplastik.com.tr)

## SOLARİZASYON ÖRTÜLERİ / SOLARISATION COVERS

### YENİ NESİL İNCE ÖRTÜ

- Solarizasyon işleminin daha etkili olması için özel formül ile 3 katlı olarak üretilmektedir.
- Solarizasyon işlemi için en ekonomik türündür.
- Yüksek saydamlıkta üretilmektedir.
- Direkt ışık geçirgenliği %95'tir.
- Film kalınlığı 17 microndur.
- 1200m<sup>2</sup> alanın solarizasyonu için 20 kg kullanılır.

| İÇERİK         |                              |
|----------------|------------------------------|
| Ultraviyole    | ✓                            |
| Antibakteriyel | ✓                            |
| Antioksidan    | ✓                            |
| Dayanıklılık   | 60 Gün                       |
| Alan           | 1 Dönüm / 1200m <sup>2</sup> |
| Kullanım Mik.  | 20kg                         |



### YENİ NESİL SOLARİZE FİLM

- İşi ve gaz bariyeri
- Özel formülü ile toprağın 15°C'ye kadar daha sıcak olmasını sağlar.
- Nematod Fusarium ve yabani otlara karşı uzun süre etkili.
- Dönüme 20kg. kullanın.
- Film kalınlığı 17 microndur.

| İÇERİK             |                              |
|--------------------|------------------------------|
| Ultraviyole        | ✓                            |
| Antibakteriyel     | ✓                            |
| Antioksidan        | ✓                            |
| Dayanıklılık       | 60 Gün                       |
| Özel Katkılar (SA) | ✓                            |
| Alan               | 1 Dönüm / 1200m <sup>2</sup> |
| Kullanım Mik.      | 20kg                         |



### CLASSIC ENERGY



Yüksek ısı geçirgenlik özelliği ile verimliliği artırır.  
*With high heat permeability increases the productivity.*

| İÇERİK         |                  |
|----------------|------------------|
| Antibakteriyel | ✓                |
| Antioksidan    | ✓                |
| KALINLIK       | min.17(μ) Mikron |

### PERFORMA ENERGY



Termal etki, ısı bariyeri ve damlatmama özelliklerine sahiptir. Ekstra enerji tasarrufu sağlar. Hastalık oluşumunu engellemeye yardımcı olur.  
*Thermal effect, heat barrier and with anti drip effect. Gives extra energy saving. Helps to stop disease.*

| İÇERİK         |                  |
|----------------|------------------|
| Antibakteriyel | ✓                |
| Antioksidan    | ✓                |
| Thermal        | ✓                |
| Anti Fog       | ✓                |
| KALINLIK       | min.30(μ) Mikron |

### MAX ENERGY



Termal etki, ısı bariyeri ve damlatmama özelliklerine sahiptir. Ekstra enerji tasarrufu sağlar. Hastalık oluşumunu engellemeye yardımcı olur.  
*Thermal effect, heat barrier and with anti drip effect. Gives extra energy saving. helps to stop disease.*

| İÇERİK         |                  |
|----------------|------------------|
| Antibakteriyel | ✓                |
| Antioksidan    | ✓                |
| Thermal        | ✓                |
| Anti Fog       | ✓                |
| Anti Mist      | ✓                |
| KALINLIK       | min.30(μ) Mikron |

### THERMAL ENERGY



Termal etki ve ısı bariyer özelliği ile ekstra enerji tasarrufu sağlar.  
*Thermal effect, heat barrier. Gives extra energy saving.*

| İÇERİK         |   |
|----------------|---|
| Antibakteriyel | ✓ |
| Antioksidan    | ✓ |
| Thermal        | ✓ |

### PERFORMA ENERGY LUX



Termal etki, ısı bariyeri ve damlatmama özelliklerine sahiptir. Ekstra enerji tasarrufu sağlar. Hastalık oluşumunu engellemeye yardımcı olur.  
\*Clear IR katkısı kullanımı ile extra şeffaf bir ürün olup, daha yüksek ışık geçirgenliği sağlar.  
*Thermal effect, heat barrier and with anti drip effect. Gives extra energy saving. helps to stop disease.*

| İÇERİK         |                  |
|----------------|------------------|
| Antibakteriyel | ✓                |
| Antioksidan    | ✓                |
| Thermal        | ✓                |
| Clear IR       | ✓                |
| KALINLIK       | min.30(μ) Mikron |

### PRO ENERGY



Damlatmama özelliği, daha yüksek ışık geçirgenliği gibi özelliklere sahiptir. Hastalık oluşumunu engellemeye yardımcı olur.  
*Together with anti drip additive gives high light transparency. Helps to stop disease.*

| İÇERİK         |   |
|----------------|---|
| Antibakteriyel | ✓ |
| Antioksidan    | ✓ |
| Anti Fog       | ✓ |



### MAX ENERGY LUX



Termal etki, ısı bariyeri ve damlatmama özelliklerine sahiptir. Ekstra enerji tasarrufu sağlar. Hastalık oluşumunu engellemeye yardımcı olur.

\*Clear IR katkısı kullanımı ile extra şeffaf bir ürün olup, daha yüksek ışık geçirgenliği sağlar.  
*Thermal effect, heat barrier and with anti drip effect. Gives extra energy saving. helps to stop disease.*

\*With Clear IR effect which gives better light transparency.

| İÇERİK         |                  |
|----------------|------------------|
| Antibakteriyel | ✓                |
| Antioksidan    | ✓                |
| Thermal        | ✓                |
| Anti Fog       | ✓                |
| Clear IR       | ✓                |
| KALINLIK       | min.30(μ) Mikron |



## DİĞER ÜRÜNLER / OTHER PRODUCTS

### NEM TUTMAZ TORBA

#### FRESH FRUIT AND VEGETABLE ANTI-FOG BAGS

Seffaf, kolay açılır, ekonomik ve parlaktır.  
Taze meyve ve sebzelerin paketlenmesinde  
kullanılmaktadır.

\*500 adetli kutularda.

Fresh Fruit and Vegetable Anti-Fog Bags reduce the condensation on the surface of the bag to make clearer appearance when customers look at the Fruit and Vegetable products.

|  |
|--|
| 500 Adetli Koli Nem Tutmaz Torba ve Körük Öğümleri(cm) |
| 50x70   60x70   60x80   60x85   60x90   62x85          |
| 15+15   15+15   15+15   15+15   15+15   20+20          |



[www.seraplastik.com.tr](http://www.seraplastik.com.tr)

### MAHSUL TOPLAMA TORBASI

#### COLLECTING BAG

- Siparişe özel, baskılı üretilenler.
- Farklı ölçülerde üretim yapılabilir.
- Can be produced with customer logo.
- Possible to produce in different sizes.



### GROWBAG TOPRAKSIZ TARIM TORBALARI

#### SOILLESS AGRICULTURAL BAGS

Topraksız tanmda kullanılan yetişirme torbalandır. UV stabilizer kataklı, uzun ömürlüdür. İçi siyah dışı beyaz renkli olup ışık geçirgenliği %0 (ışık geçirmez), kalınlığı 100 microndur. Talep edilen genişlik, uzunluk, kalınlık ve hacim değerlerine göre üretilir.  
These are the growbags used in soilless agricultural bags. It contains UV stabilizer and has a long life span. Its internal side is black and external side white, having a 0% penetration of light. Its thickness is 100 microns. It is produced according to the width, length, thickness and volume demanded by the customer.



### FİDE ve PEYZAJ ÜRETİM TORBALARI

#### SEEDLING BAGS

Sebze, meyve ve çiçek fidelerinin belli bir zaman kadar yetiştirilmesinde kullanılır. UV stabilizer kataklı olup uzun süre dayanıklıdır. Standart ürün bilgileri aşağıdaki tabloda görülebilir.  
They are used to grow the seedlings of plants, fruits and flowers. They contain UV stabilizer and have a long life span. Please see the standard product features in the following table:

| Fide Üretim Torba Ebatları<br>Dimensions of the Seedling Bags |                      |                         |                                  |
|---|----------------------|-------------------------|----------------------------------|
| EnxBoy (cm)<br>WidthxLength                                   | Körük (cm)<br>Gusset | Hacim (cm³)<br>Quantity | Miktar / Volume<br>Adet-Piece/Kg |
| 8 x 13  | 2,5 + 2,5            | 420                     | 427                              |
| 10 x 20   | 3 + 3                | 1020                    | 188                              |
| 12 x 20   | 4 + 4                | 1536                    | 150                              |
| 12 x 25   | 4 + 4                | 2016                    | 120                              |
| 15 x 25   | 5 + 5                | 3000                    | 87                               |
| 15 x 30   | 5 + 5                | 3750                    | 72                               |
| 15 x 35   | 5 + 5                | 4500                    | 62                               |
| 18 x 30   | 6 + 6                | 5184                    | 60                               |
| 18 x 35   | 6 + 6                | 6264                    | 51                               |
| 20 x 30   | 6,5 + 6,5            | 6110                    | 50                               |
| 20 x 35   | 6,5 + 6,5            | 7410                    | 43                               |
| 20 x 40   | 6,5 + 6,5            | 8710                    | 37                               |
| 25 x 35   | 8 + 8                | 10800                   | 30                               |
| 25 x 45   | 8 + 8                | 14800                   | 23                               |



### SİYAH - GÜMÜŞ GRI MALÇ

#### BLACK-SILVER GREY MULCH

Bitkinin toprakla temasını ve ot oluşumunu engeller. Gümüş Grinin yansıtma özelliğinden dolayı bitki yapraklarının ve mahsulin alt kısımlarının güneş ışığı almasını sağlar. Yaprakların alt taraflarında bakteri oluşumunu azaltarak meyvelerde düzenli renk dağılımı oluşmasına yardımcı olur. Haşereleri uzak tutar. Gümüşün ışığı yansımadan kaynaklı verim artışı sağlar (siyah-beyaz film kadar değil), zamanından önce bitki gelişimini engeller. Bitkinin plastik ile temas eden yüzeyinin siyah renkli filme göre daha az ısınmasından kaynaklı yaprakların yanmasını engeller.

Bu filmin siyah tarafı toprak ile temas etmelidir. It prevents the contact of the crop with the soil, inhibits any growth of weed. With the reflection feature of Silver Gray, it ensures the leaves and lower parts of the plant to get sunlight. It decreases bacterial growth in the lower pads of the leaves, thereby helping uniform colour distribution on fruits. Repellent of certain insects. With the reflection feature of silver gray; it ensures the leaves and lower parts of the plant to get sunlight, provides high yield and precocity, as this reflection contributes to extra light for the plant (however it is not as much as the black - white film). It avoids the risk of burning plant which contact with the film, as this warm up much lesser than the black film.  
Black side of this film should contact with soil.

## ÇİLEK ve KARPUZ ÖRTÜLERİ / STRAWBERRY & WATERMELON COVERS

### ÇİLEK KAPAMA

(12) (24) | AY MONTH



Cilek üretiminde kullanılan alçak tünel tarımsal filmlerdir.

\*Ürünler talebe göre delikli veya deliksiz olarak üretilebilir.

Low tunnel agricultural firms which are used to produce strawberry.

\*Can be produced with or without holes.



### KARPUZ FILMİ

#### WATERMELON TUNNEL COVERS

Cok katlı koekstrüyon teknolojisi, LDPE ve LLDPE hammaddelerin birleştirilmesi ile 20 mikron kalınlığında üretilmektedir.

Bu birleşimler filme alçak tünel seracılığında kullanılabilmesi sağlayan üstün mukavemet özellikleri sağlar.

Sheet manufactured with multilayer coextrusion technology, combining LDPE and LLDPE with a standard thickness of 20 microns. This combination of materials gives the film great mechanical strength, which makes it especially suitable for use in semi-forced cultivation.



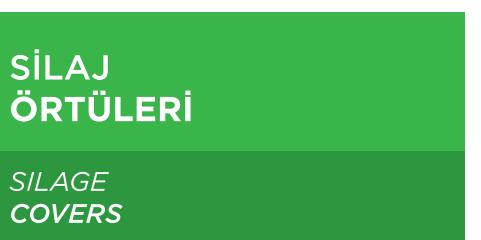
## MALÇ ÖRTÜLERİ / MULCH COVERS



| Uygulama Alanı ve Süresi / Field and Period of Application |                       |                |  |   |                                       |    |    |    |                      |
|--|-----------------------|----------------|--|---|---------------------------------------|----|----|----|----------------------|
| Ürün Cinsi<br>Description of Product                       | Şeffaf<br>Transparent | Renk<br>Colour | Gümüş Gri - Siyah<br>Silver Grey - Black | Kalınlık (Mikron)<br>Thickness (Micron) | Sera İçi<br>Interior of<br>Greenhouse |    |    |    | Açık Alan<br>Outdoor |
|  |                       |                |  |   | 10                                    | 25 | 30 | 40 |                      |
| Malç Film / Mulch Film                                     | ✓                     | ✓              |  |   | ✓                                     |    |    | ✓  |                      |
| Malç Film / Mulch Film                                     |                       | ✓              |  |   |                                       | ✓  |    |    |                      |
| Malç Film / Mulch Film                                     |                       | ✓              |  |   |                                       | ✓  |    |    | ✓                    |
| Süper Malç Film / Super M. Film                            |                       | ✓              |  |   | ✓                                     |    |    |    | ✓                    |
| Gümüş Gri-Siyah / Silver Grey-Black                        |                       |                | ✓  |   |                                       | ✓  |    |    | ✓                    |



## DİĞER ÜRÜNLER / OTHER PRODUCTS



## SULAMA ve HAVA HORTUMLARI

### IRRIGATION and AIR HOSES

Sulama hortumları özellikle açık alan sulamasında kullanılır, kullanımı kolay, UV stabilizer katkılı, uzun ömürlüdür.  
8cm'den 30cm'e kadar çeşitleri mevcuttur.

Hava hortumları, ısıtıcı sistemlerde elde edilen sıcak havanın sera içerisindeki diğer noktalara taşınmasında kullanılır. Kurulumu kolay, UV stabilizer katkılı, uzun ömürlüdür.

Easy-to-use irrigation hoses are used especially for the irrigation of outdoor areas. They contain UV stabilizer and have a long life span.  
They varieties range from 8 cm to 30 cm.

Air hoses are used to carry the warm air produced in the heating systems to other locations in the greenhouse. They are easy to install, contain UV stabilizer with a long life span.



