



Archan

Polyfilms Pvt. Ltd.



Archan Polyfilms Pvt. Ltd. is a producer of **Multilayer UV Stabilized Plastic Agriculture Films**. Quality being company's prime motto, farmers get full benefit of the products they purchase.

We Manufacture Virgin Quality of

Mulching Films

Solarization Films

Low Tunnel Films

Quality of the material is determined by :-

◆ **Elongation :**

- This is the basic characteristics of the film. Values like mechanical properties (tensile strength & elongation), optical properties, thermal properties and durability of the film should be taken into consideration.

◆ **Proper U.V. Stabilised Film :**

- Dosage of Proper U.V. is done by us in our material.

◆ **Quality :**

- Variation in Thickness & Width is properly Controlled.
- Length and net weight is properly mentioned on each Roll.

*Save Water
Get more Productivity*

Plastic Mulching Films

Water Conservation :

- It prevents evaporation of water.
- It sustains moisture in the soil.
- In case of shortage of rainfall, it helps to cultivate the crop by requiring less water.

Soil Structure :

- Due to uneven climatic conditions and in case of excessive rainfall it saves the soil structure.
- Due to drip irrigation, the land remains soft which results in effective growth of plant roots.
- Due to porosity of land there is better movement of moisture, without effecting soil structure.
- Heat and Temperature developed in the soil is maintained.

Weed Control

- Effective for the better solarization of soil.
- Plastic mulch is very effective in preventing weed growth.
- In recent organic farming trend, there is no solution to control weeds. Plastic mulching is very effective in controlling weeds. Plastic dose not react with land and plants. Hence the basic purpose of organic farming is also achieved. It saves lot of labour & fertilizer.

Increase in Productivity :

- The seeds get Optimum Temperature, Moisture, Fertilizer, which results into maximum yield of crop.
- It reduces root damages.
- It keeps ripen fruits away from the soil. This reduces contact with the soil which decreases fruit rotting. This is beneficial for the production of all Creeper plants like Tomato, Strawberry, Watermelon,.....etc.

Reduction in the leaching of Fertilizers & Pesticides

- The use of drip irrigation in conjunction with plastic mulch reduces leaching of fertilizers.
- It does not leach nitrogen and other nutrients to the depths below the root zone level.
- Due to reflective surface it provides sunlight on the ventral side of the leaves.
- Provides ideal environment for earthworms and other soil micro organisms beneficial for crops.
- Mulching provides resistance to plant from diseases thus reduces the usage of pesticides.



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Laying Mulching Films

- The Land should be properly prepared with the help of rotovators or other equipments.
- The bed should be prepared depending upon the crop.
- Drip irrigation pipe should be laid on the bed.
- Mulch should be laid in non windy condition.
- The mulch material should be held tight without any crease and laid on the bed.
- **Pre planting mulch** : The mulch material should be kept for 10 to 15 days in idle position after supplying water. This results efficient soil solarization process and then punctured at the required distances as per crop spacing and laid on the bed.
- The seeds / transplants should be sown/transplanted in the holes.
- Farmers can lay this films through the help of labour.
- Machines are also available for laying mulch films.



Mulching should be promoted in different Crops like ...

- ◆ **Vegetable Crop** : Plastic Mulching films is widely used in different veg. crops like Chilly, Brinjal, Tomato, Capsicum, Lady finger, Potato, Cabbage, Cauliflower, etc...
- ◆ **Fruit Crops** : Mango, Pineapple, Pomegranate, Banana etc. with different use and proper guidance
- ◆ **Other Crops** : Like Cotton, Caster Bean, Pulses, Flowers, .. etc.

Suggested size of Mulching film for various crops :

Thickness (microns)	Suggested Crop
25-30	Small duration crops
50	Medium duration crops
50-100	Long duration crops



Solarization Films

Soil Solarization is normally done during summer months with temperature (air) more than 35°C for controlling weeds, seeds, bacteria, fungi, nematodes and other soil borne pathogens and pests by covering the moist soil with a transparent polyethylene film exposed to sunlight. The effectiveness of soil solarization enhances plant growth by improving soil colour, structure, temperature, moisture etc.

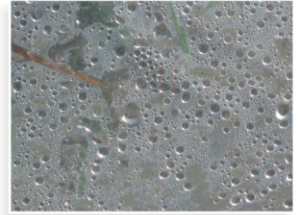
Advantages

- Controls weed, nematodes and other soil borne diseases.
- Enhances germination and helps in the development of healthy seedlings.
- Enhances plant growth and yield.
- Helps in reducing usage of weedicides / herbicides / Insecticide

25 micron transparent Polyethylene film is used for Solarization

Physical identification of successful solarization:

- Water droplets collected in the inner surface of the film.
- The upper surface of the film will be very hot.
- Weeds under the film will be eliminated due to high temperature.



Low Tunnel Films

Plastic tunnel popularly known as low tunnels are miniature structures producing effect like greenhouse. These tunnels facilitate the entrapment of carbon dioxide, thereby enhancing the photosynthesis activities of the plant that help to increase yield. These structures also protect the plants from high wind, rain, frost and snow. Besides being inexpensive, these structures are easy to construct and dismantle.

Low tunnels have been used for producing healthy and high value nurseries. Use of low tunnels has been effective in crops such as **Tomato, Cucumber, Radish, Beans, Asparagus, Strawberries, Melon and Tobacco** etc.

Advantages

- Used for raising healthy and early nursery.
- Maintains optimum temperature for plant growth.
- Enhances nutrients uptake by the plants.
- Increases photosynthesis activities of the plants.
- Used for cultivation during winter.
- Protection against wind, rain, frost & snow.



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