

Mulch film



Hyplast NV offers a wide range of co-extruded films (up to 7 layers) for various applications in agri- and horticulture. Thanks to the process of co-extrusion, it is possible to combine the optical, thermic, mechanical and chemical properties of different raw materials in the best possible way in one single film. This results in a film giving your crop the optimal protection against negative external influences and creating an ideal microclimate for your crop to grow.

Properties

Important properties of mulch films are:

- **Mechanical strength**
Mulch films are usually placed mechanically. Therefore it is of utmost importance that mulch films are strong enough. Thanks to the use of special raw materials and new developments, Hyplast can guarantee a steady quality and strength.
- **Reduced evaporation**
Mulch films help to control the moisture content of the soil. Under influence of temperature and wind, the soil might dehydrate too fast, which could have serious consequences for the crop. Mulch films retain the water in the soil and avoid a (too) fast dehydration. In this way, they help to create an optimal microclimate under the film. As mulch films cover the soil, they also keep the necessary nutrients in their place and avoid them being washed out of the soil.
- **Lifetime**
Depending on the application, mulch films have to last 1 to 3 seasons. The use of special additives, that for example protect the film from premature ageing under the influence of UV-light, enables us to guarantee the lifetime of mulch films for the necessary period (up to 3 seasons).



HYPLAST NV
Sint-Lenaartseweg 26
B-2320 Hoogstraten
Belgium

tel: +32 (0) 3 340 25 50
fax: +32 (0) 3 314 23 72
e-mail: info@hyplast.be

www.hyplast.be

© Hyplast

Mulch film

Properties

- **Special properties**

Next to the general properties, mulch films can also have a number of very specific properties like:

- anti-fog effect for transparent mulch films
- different colours (white, black, black/white, green, brown, etc.)
- different thicknesses (from 18 µm to 100 µm)
- bio-degradability

These specific properties depend on the type of culture, the location where the film is used, the desired lifetime, etc.

The following table gives a brief overview of the specific properties of mulch films in function of their colour.

	Black/white	Black	Green	Brown	Transparent
Heating up/ Cooling down	White upper layer reflects light rays and prevents the crop from burning. The black layer doesn't transmit any light.	Black absorbs all light. The soil is heated up because of the contact with the film.	Better heating up of the soil than black, as the NIR and green light are transmitted. Less heating up of the film itself because of the absorption of light rays.	Better heating up of the soil than black or green, as the NIR and green light are transmitted. Less heating up of the film itself because of the absorption of light rays.	Excellent heating up thanks to full transmission of radiation.
Weed growth	No weed growth, no transmission of PAR (part of the radiation spectrum necessary for photosynthesis).				Weed growth is possible.
Reflection of light to the plants	White layer reflects radiation to the plant, which entails a higher production.	No reflection.			

For detailed information about our range of mulch films, please contact our sales department (tel. +32 3 340 25 50).