

# TAPIOPLAST® FOR AGRICULTURAL MULCH FILM

## Eco-friendly compostable biodegradation in soil



**TAPIOPLAST®** is a series of biodegradable and compostable bioplastics which is produced from tapioca starch together with other bioplastic resins to provide the solution for environmental impact from plastic waste pollution in various sectors including food service, packaging, agriculture, and organic waste management.

### TAPIOPLAST® MULCH FILM

**TAPIOPLAST®** mulch film is the best choice for farmers to maximize crop productivity while minimizing labor cost and keeping the environment clean.

**TAPIOPLAST®** mulch film is made from compostable materials according to EN13432. The mulch film is compostable in the soil after harvesting.

*Disclaimer:*

*The technical information provided in this document should be used as a guide only. The advice contained herein is based on tests and information believed to be reliable. Users should not solely rely on this information as performance properties will vary depending on processing conditions. SMS Corporation makes no guarantee of results and assumes no obligation or liability in connection with its advice.*

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## PRODUCT PROPERTIES

### Excellent mechanical properties

Black **TAPIOPLAST®** mulch film provides excellent toughness and flexibility to ensure that it can be used with mechanical laying machines.

### Excellent light transmission

The black **TAPIOPLAST®** mulch film allows low light transmission of less than 1%. It is very efficient for weed control.

Parameter	Value	Unit
Tensile strength (MD)	≥ 18	MPa
Tensile strength (TD)	≥ 16	MPa
Elongation at break (MD)	≥ 200	%
Tensile elongation (TD)	≥ 300	%

(Tested film according to ASTM D882 with blown up ratio: 2.5; die diameter: 30 mm; film thickness: 20

## PRODUCT FEATURES AND CULTIVATIONS

Black **TAPIOPLAST®** mulch films are available in a variety of thicknesses ranging from 15 - 25 microns and widths ranging from 0.8-1.5 meters. They are suitable for various crop cultivations including melon, lettuce, strawberry, tomato, and others.

**TAPIOPLAST®** mulch film selections are shown in the guideline table below. The different film thicknesses are suitable for different crop periods.

Mulch Film	Color	Density (g/cm <sup>2</sup> )	Thickness (micron)	Width (m)	Length (m/roll)	Cultivation
<b>TAPIOPLAST®</b>	Black	1.30 - 1.36	15	0.8, 1.0, 1.2, 1.5	400	Lettuce
			20	0.8, 1.0, 1.2, 1.5	400	Melon
			25	0.8, 1.0, 1.2, 1.5	400	Tomato, Strawberry

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