TopTex

Compost Protection Fleece

500 161 | 10.2001

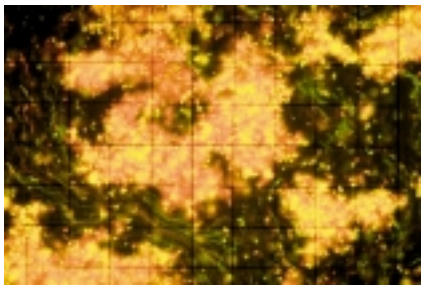
New Life from Compost
with TopTex Compost Protection Fleece

TopTex Compost Protection Fleece
An important tool for optimal composting

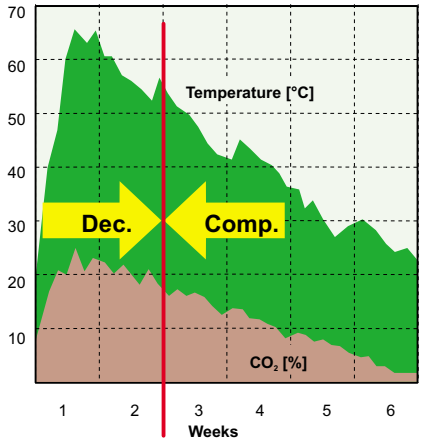
- ✓ TopTex maintains optimal moisture conditions
- ✓ TopTex ensures proper aerobic decomposition
- ✓ TopTex minimizes leachate and nutrient losses

TopTex

Compost Protection Fleece ...



Humus-building microorganisms under the fluorescent microscope



Temperature and CO_2 in the compost:
Dec. = Decomposition
Comp. = Composition

Temperature:	max. 65°C
Moisture:	55 - 60%
CO_2 content:	max. 20%
Oxygen level:	> 5%
pH value:	< 8
Nitrite (NO_2):	non detectable
Nitrate (NO_3):	
winter:	< 100 ppm
summer:	< 300 ppm

Optimum conditions in the compost pile

High-quality humus as the basis for healthy plant growth.

Controlled humus building through composting of organic wastes

Composting is the conversion of organic wastes into high-quality humus. Through systematic controls these materials can be returned to the earth, completing the cycles of nature and improving the soil to which it is applied.

The Controlled Microbial Composting **(CMC)** method helps to restore the fertility and buffering capacity of agricultural soils.

To achieve this goal, strict guidelines and controls must be followed. This includes the proper selection of the feedstocks, regular turning of the piles for aeration, and proper guidance of the decomposition process.

Therefore, several parameters such as temperature, oxygen levels, CO_2 levels, pH value, sulfide, nitrite, nitrate, and ammonium must be continuously monitored, and if necessary adjusted (see table).

Compost Protection Fleece
An important tool for optimal composting

- TopTex maintains optimal moisture conditions

TopTex diverts rainfall away from the surface and protects from drying by sun and wind.

- TopTex ensures proper aerobic decomposition

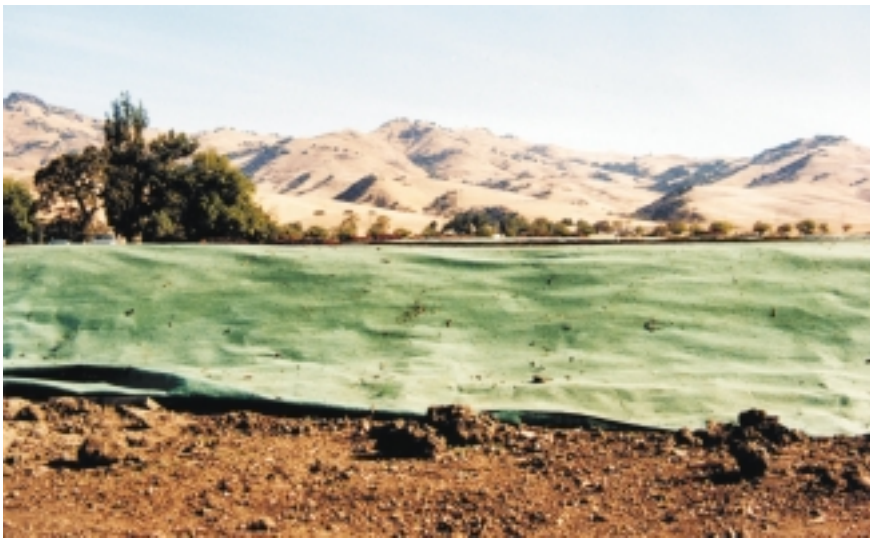
TopTex allows the necessary gas exchange and ensures more optimal temperatures throughout the outer layers of the piles.

- TopTex minimizes leachate and nutrient losses

TopTex diverts rainfall away from the windrows and therefore minimizes the incidence of leachate.

TopTex

... for highest compost quality

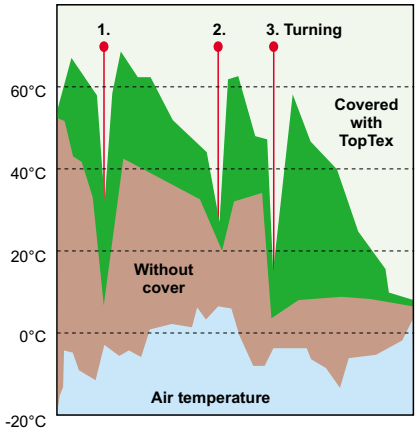


TopTex Compost Protection Fleece used for covering mature compost:

Many experienced users use Toptex Compost Protection Fleece for covering their most valuable product: the mature compost! This is a economic solution and easy to handle. The fleece allows exchange of gases, protects against moisture, keeps the compost dry and in a crumble structure. It also protects efficiently against the grow of all kinds of weeds. This method allows an effective and economic open air storage of mature compost.

Scientific research

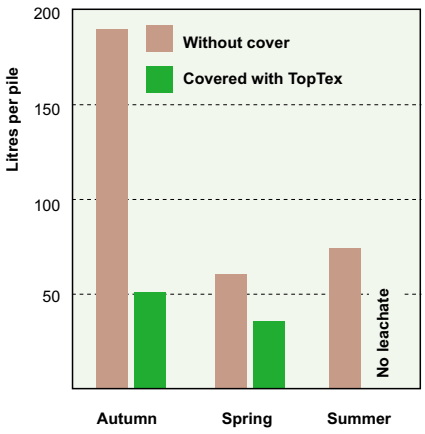
Numerous scientific studies have shown the positive influence of TopTex compost cover fleece on the quality of the finished compost (IGM Engineering Association of Witzenhausen; Technical University Vienna, Institute for Water Quality and Waste Management; University for Soil Science, Vienna; and many others).



Temperature in test windrows

TopTex Compost Protection Fleece for the storage of raw manure:

Use TopTex compost protection fleece for the **storage of raw manure** as well! Scientific studies show that nutrient losses can be reduced significantly with TopTex Compost Protection Fleece. Government guidelines and best management practices recommend the covering of stacked manure which is stored outside (e.g. in accordance to the LGW 1992 from 12/95, Austria).



Leachate quantity

TopTex

Compost Protection Fleece

Over a decade of experience in applications world-wide

TopTex compost protection fleece has proven itself in compost sites around the world, and belongs to today's standards of modern composting technology. Many windrow turners are now serially equipped with fleece rolling devices.

Product Description

TopTex is a gas-permeable fleece composed of endless 100% polypropylene fibres.

TopTex is ...
... **environmentally compatible** (certified inert)
... **recycable**
... **chemically stable** against acid and alkali (pH 2 - 13)
... **biologically stable** against microbial decay and leachate (VOA & VOC)
... **freeze / thaw tolerate**
... **UV-resistant** through special UV stabilization

Usage Recommendations

TopTex is durable under normal middle European climatic con-ditions for a minimum of 3 to 5 years*. The lifespan is extended if TopTex is protected from UV radiation when not in use.

*) Statements on the lifespan are based on experience of the manufacturer and multi-year climate data of Austria. Extreme solar radiation can impair the lifespan of the product.

Technical Data

Weight: 200 g/m² (approx. 6 oz/yd²)
Tensile strength: 12,5 kN/m (= approx. 1,2 to/m)
Roll length: 50 m (approx. 164 ft)
Roll width: 4 m (approx. 13 ft) or 5 m (approx. 16.4 ft)
Roll weight: approx. 40 kg (88 lbs) or 50 kg (110 lbs)

Polyfelt Ges.m.b.H.
Schachermayerstrasse 18, A-4021 Linz, Austria
Tel. +43 732 6983 0, Fax +43 732 6983 5353
service@polyfelt.com

Your TopTex partner: