

Biodegradability according to international standards

Cellulose is the most abundant and renewable biopolymer on Earth.

Lenzing cellulosic fibers: **Lenzing Viscose®**, **Lenzing Lyocell®** and **TENCEL®** are made from the sustainable resource wood and are, therefore, fully biodegradable within a reasonable period of time. Different methods for testing biodegradability and disintegration have been specified in order to verify the compostability of materials.

In Europe, an established disintegration test is described by DIN EN 13432 and in the USA, a disintegration test is given by ASTM D 6400.

Nonwoven fabrics made from **Lenzing Viscose®** and **TENCEL®** passed these tests and have been registered and listed by DIN CERTCO as compostable materials (www.dincertco.de).

Both disintegration tests have been performed using needle punched nonwovens made from 100% **Lenzing Viscose®** 1,7 dtex / 40 mm dull and 100% **TENCEL®** 1,7 dtex / 38 mm dull.



In the course of the disintegration test described by European Norm DIN 13432, five sacks have been filled, each with approx. 7 kg of material, which consists of a blend of 1 % cut nonwoven pieces and 99 % biowaste (RAL 251).

The sacks have been covered with approx. 50-60 kg of biowaste and the rotting was observed and documented for a period of 12 weeks.



Result: Both fiber types meet the requirements of the disintegration for aerobic composting. The tested nonwovens degraded more than 90 % within a period of 12 weeks.

Lenzing fibers are made from nature and degraded by nature.

