



Technical Data Sheet

1. Description

Ecoworld 003 is the trademark for our biodegradable and **compostable** PBAT. Ecoworld PBAT is typically used in compounds with starch and PLA (polylactic acid) to produce films.

2. Technology

Ecoworld PBAT is produced by using the patented standing five reactor system which makes it possible to control the melt flow index below 5 without application of chain extending agents.

3. Certification

Ecoworld PBAT can be in direct contact with food safely. The material complies with USA FDA certification. It also conforms the standards of biodegradability and compostability, e.g. standards EN13432 and ASTM6400.

4. Properties

PROPERTY	UNIT	TEST REFERENCE	VALUE
Melt Flow Rate	g/10min	DIN ISO 1133 at T=190°C, w=2.16kg	≤5
Density	g/cm ³	ISO 1183	1.26
Tensile strength	MPa		≥18
Melting Temperature	°C	DSC	110-120
Elongation At Break	%		≥500
Vicat Softening Point	°C		92

5. Application

Ecoworld 003 has been developed for the conversion to flexible films using a blown film process (with starch or PLA in a compound recipe). Typical applications is the production of packaging films, single use bags, shopping bags, carrier bags and compost bags.

Ecoworld 003 can be processed excellently on blown film LDPE extrusion lines, sheet film extrusion lines without any special requirements apart from lower extrusion temperature.

6. Packaging

Ecoworld 003 is delivered in 650kg big bag or 25kg bag. Both packages are in PE inliner bags.

7. Processing recommendations

Ecoworld 003 can be processed without predrying with a moisture content ≤ 0.5%.



8. Storage

The raw materials should not be stored longer than 12 months.

9. Quality control, quality assurance

Jinhui ZhaoLong has implemented the **ISO9001** quality management system in order to guarantee quality.

10. Agent and distributor

Dr. Maximilian Lackner

Lackner Ventures & Consulting GmbH

Barbenweg 1A

1220 Vienna, Austria

kontakt@drlackner.com

Tel: +43 681 8182 6762

<http://www.pbat.info>



The information and data contained herein is believed to be accurate and is given in good faith. However, accuracy is not guaranteed for the product referred to herein and Jinhui ZhaoLong disclaims all liability accordingly, whether in contract or otherwise.