



Technical Data Sheet

1. Description

Ecowill FS-0615 is the trademark for our biodegradable and **compostable** compounds containing renewable resources. Ecowill is made with Ecoworld PBAT and starch (from non-GMO maize).

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	2.5
Density	g/cm ³	ISO 1183	1.29
Melting Temperature	°C	DSC	110-120
Bulk density	g/cm ³	ISO3944	0.69-0.78

5. Application

Ecowill FS-0615 has been developed for the conversion to flexible films using a blown film process. Typical applications are the production of packaging films, single use bags, shopping bags, carrier bags and compost bags.

Ecowill FS-0615 be processed excellently on blown film LDPE extrusion lines, sheet film extrusion lines without any special requirements apart from lower extrusion temperature.

6. Achievable Properties of blown film made of Ecowill FS-0615.

Parameter	Guide Value	Unit	Test Method
Minimum thickness	20	μm	EN ISO 2286-3
Tensile strength-MD	≥25	MPa	ISO 527
Tensile strength-TD	≥15	MPa	ISO 527
Elongation at break	100-500	%	ISO 527

The film produced with Ecowill FS-0615 can be printable without pretreatment.



7. Packaging

Ecowill FS-0615 is delivered in 650kg big bag or 25kg bag. Both packages are in PE inliner bags.

8. Processing recommendations

Ecowill FS-0615 can be processed without predrying with a moisture content $\leq 0.5\%$.

9. Storage

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

10. Quality control, quality assurance

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

11. Agent and distributor

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