



Plactid

Plactid[®] 13.000

INNOVATIVE AND SUSTAINABLE BIOPLASTICS

PRELIMINARY DATA SHEET

Product Information

Plactid[®] 13.000 is an innovative and sustainable PLA copolymer for use in blown film and cast film extrusion.

Food Regulatory Status

In progress.

Carbon Footprint

The raw materials and production process for Plactid[®] 13.000 have a significantly lower carbon footprint than comparable plastics based on raw oil.

Recycling

Plactid[®] 13.000 can be recycled both mechanically and chemically. The Polymer Group is currently building a plant for the chemical recycling of PLA copolymers (closed loop). This recycling process will further reduce the carbon footprint of Plactid[®].

Certifications

In progress.



SOBICO GMBH

TELEFON +49 6751/84-0

D-55566 BAD SOBERNHEIM

E-Mail: info@sobico.de

All given values are considered as property guidelines only.
Data were obtained on specimen dry as molded at 23 °C.
The converter needs to perform his own evaluations for the intended use.
These values can not be construed as a specification.





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POLYLACTID COPOLYMER

COLOR: NATURAL

APPLICATION: EXTRUSION (BLOWN FILM, CAST FILM)

	PROPERTIES	TEST SPECS	UNIT	VALUE
PHYSICAL PROPERTIES	DENSITY	ISO 1183	g/cm ³	1.23
	MVR	ISO 1133 / 190°C/2.16Kg	cm ³ /10min	0.5
	ASH CONTENT	ISO 3451 (+625°C)	%	2
	REMAINING LACTID CONTENT	GC	%	<0.3

	PROPERTIES	TEST SPECS	UNIT	VALUE
MECHANICAL PROPERTIES	TENSILE MODULUS	ISO 527	MPa	100
	TENSILE STRENGTH	ISO 527	MPa	20
	ELONGATION AT BREAK	ISO 527	%	400
	CHARPY IMPACT STRENGTH	ISO 179 1eU 23°C	kJ/m ²	40
	GLASS TRANSITION TEMPERATURE	DIN EN ISO 11357-2	°C	20

DRYING AND PROCESSING

Because of the moisture sensitivity of the PLA Copolymer, Plactid[®] 13.000 should be pre-dried to a maximum moisture content of 100 ppm prior to processing in the extruder. The drying process should be at least 4 to 6 h at 90°C using an air dryer. The processing temperatures in the extruder should be within 170 to 190°C.



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