

Press release - Emmerich, May 2 2014

Interpack 2014 – Hall 09, booth F16-3 BIOTEC reaches **high heat resistance** threshold with new BIOPLAST 900

69% biobased

100% biodegradable

Fit for food packaging

GMO-free

Suitable for injection moulded and thermoformed products



After BIOPLAST 500, the first resin for film applications reaching 51% of biobased carbon according to ASTM D6866, BIOTEC is achieving new performances with the launch of BIOPLAST 900.

BIOPLAST 900 withstands hot filling applications

"Products made of BIOPLAST 900 can, unlike other bioplastics, withstand boiling temperatures without losing their shape, functionality and efficiency. Even at high filling temperature, the taste of liquids/food is not affected." says Harald Schmidt, Director of Innovation & New Technology of BIOTEC

This makes BIOPLAST 900 perfectly suitable for numerous food applications: coffee capsules, cups for cold as well as for hot drinks.

Heat resistance combined with biodegradability - BIOPLAST 900 shows undisputable environmental advantages, e.g. organic recyclability. For instance, used coffee capsules or other products made of BIOPLAST 900 are perfectly suitable for industrial composting.

High definition moulding and short cycle times

“BIOPLAST 900 processability allows moulding of extremely precise and complicated shapes. This innovative bioplastic resin exhibits moulding properties similar to conventional plastics, such as PP and PS.” adds Harald Schmidt.

For example *“With a cycle time of 5 seconds for the coffee capsule application, BIOPLAST 900 meets the challenging cycle time of conventional plastics”* states Peter Brunk, Managing Director of BIOTEC.

Technical data

BIOPLAST 900 is designed for the following applications:

- injection moulded articles (e.g. cutlery, medical devices, clips, cups for hot and cold drinks)
- semi-finished products
- thermoformed products (e.g. food trays)
- blend partner in combination with other BIOPLAST materials (e.g. BIOPLAST GF 106/02)

Products made of BIOPLAST 900

- are applicable for hot filling (e.g. beverages)
- are biodegradable according to EN 13432
- are recyclable
- are printable by flexographic and offset printing without pretreatment
- can be coloured with masterbatches
- are sealable (hot, RF, ultra sonic)

MECHANICAL PROPERTIES OF INJECTION MOULDED PRODUCTS* MADE OF BIOPLAST 900

Parameter	Typical value	Unit	Test Method
Tensile strength	31	MPa	EN ISO 527-3
Flexural strength	53	MPa	EN ISO 178
Elongation at break	4	%	EN ISO 527-3
Young's modulus	2.3	GPa	EN ISO 527-3
Flexural modulus	2.4	GPa	EN ISO 178
Charpy impact resistance at	+23°C		
unnotched	75	kJ/m ²	EN ISO 179
notched	5	kJ/m ²	EN ISO 179

(*norm bar according to EN ISO 527-2 [1B])

About BIOPLAST

BIOPLAST materials are plant-based bioplastics that contain high shares of biologically sourced polymers, such as PLA or potato starch. BIOPLAST grades are designed to run on existing standard industrial equipment. They can be processed by extrusion plants producing blown film, flat film, profiles, injection moulded and thermoformed items. All products made from BIOPLAST are 100% biodegradable according to EN 13432 standard.

About BIOTEC GmbH & Co. KG

BIOTEC is a leading European company in the development and production of bioplastics.

Based in Germany, BIOTEC develops and produces plasticizer-free sustainable bioplastics made from plant-based renewable resources.

BIOTEC produces and sells a new generation of customized thermoplastic materials with various functional properties under the brand name BIOPLAST. All products made of BIOPLAST grades are 100% biodegradable.

BIOPLAST resins have a wide range of applications, with proven and wide use for film applications (refuse bags and shopper bags) and rigid applications (injection moulding and thermoforming).

Press contact

LJ Corporate agency

Emmanuelle Messéan
+33 (0)1 45 03 57 67
e.messean@ljcom.net

BIOTEC GmbH & Co. KG

Peter Brunk
+49 (0)2822 92510
peter.brunk@biotec.de