

TechnoCompound GmbH, a member of the Polymer-Group based in Bad Sobernheim, is a leading provider of tailor-made plastic compounds in Europe.

With state-of-the-art production lines the company compounds, refines and modifies polymers for customer-specific applications. The wide product portfolio of functionally modified plastics ranges from standard compounds to engineered plastics and thermoplastic elastomers.

TechnoCompound GmbH employs around 60 people and has an annual production capacity of 50,000 t/year.

Your contact:

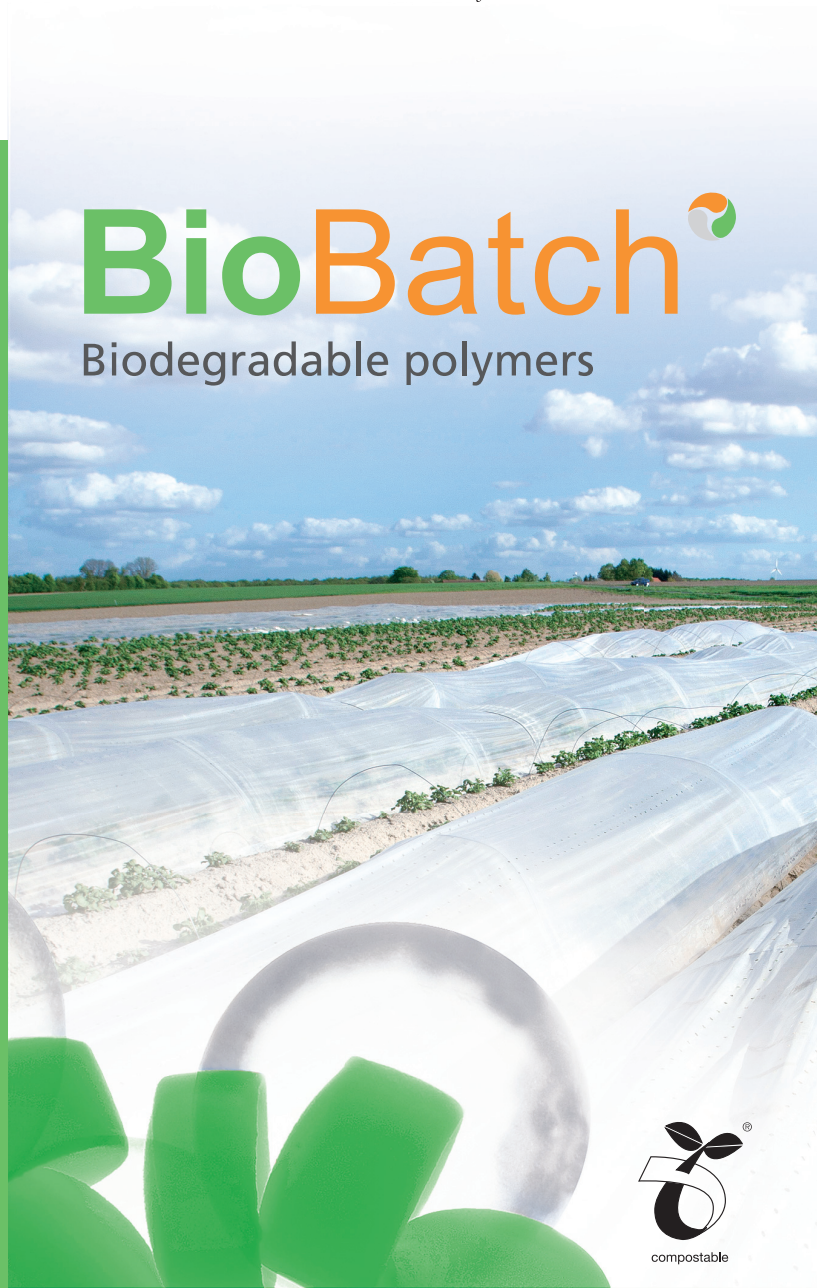
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BioBatch[®]

Biodegradable polymers



Biodegradable compounds for film applications

TechnoCompound GmbH offers highly flexible biodegradable compounds under the name **BioBatch**[®]. These polymers consist of biopolymers and special additives that are certified in accordance with DIN EN 13432 as well as ASTM D6400 by DIN CERTCO. Typical applications are garden and agricultural films, garbage bags, hygiene and packaging films.

The increasing environmental awareness requires the plastics industry to develop even more sustainable solutions. Biodegradable plastics are sustainable under more than one aspect. They are biodegradable which means they are decomposed by certain bacteria, thus offering an alternative to conventional waste disposal. Furthermore they are made at least partially from renewable raw materials, thus minimising the carbon footprint.

TechnoCompound is currently working on further enhancements of the existing product portfolio which will make them even more attractive. They are focused on **BioBatch**[®] variations with an even higher bio-based content and improved biodegradability.

Excellent properties, easy processing

BioBatch[®] 1851 and 1852 are composed of bio-based as well as fossil raw materials. Both products are suitable for printing without pre-treatment, for welding and bonding. Of course, **BioBatch**[®] compounds may also be dyed.

BioBatch[®] compounds can be processed on standard extrusion lines. Film lines processing PE-LD or PE-LLD can be switched to **BioBatch**[®] without any modifications. Due to their compatibility with polyethylene changeovers do not require an interruption of

the production process. Only a fine-tuning of the temperature profiles may be required.

Technical data

Test	Unit	BioBatch [®] 1851	BioBatch [®] 1852
MFR	g/10min	3.5	4.5
Specific weight	g/cm³	1.39	1.25
Shore D		47	49
Tesile stress at yield	MPa	13	22.8
Elongation at yield	%	19	3.5
Tensile strenght	MPa	20	31
Elongation F max	%	450	490
Residual moisture	%	<0.03	<0.03

Typical properties of current grades

