

SYNBRA TECHNOLOGY BV

Foundation

- Synbra Technology bv was founded in 1975, part of the Synbra Holding bv

Employees

- 90

Company

- Synbra Holding has 26 production sites in 6 European countries

Key bio-based products

- PLA Synterra®
- E-PLA BioFoam®

Other products

- EPS Styrex®

Synbra

Technology bv



Company

The Synbra Holding bv has a leading position in Europe regarding expandable polystyrene (EPS) for Sustainable Insulation Systems and Industrial Products & Solutions. Synbra Technology bv, based in Etten-Leur, the Netherlands, is the in-house polymerization, R&D facility 'Technology & Innovation' and centre of excellence in materials and product development of the Synbra Holding bv. A recent example of its innovations is BioFoam®, a biobased and biodegradable alternative for EPS.

Within this framework the first lactide polymerization plant, using recently developed polymerization technology from Purac and Sulzer Chemtech has been built in Etten-Leur. This plant is now producing Synterra® PLA which is used for BioFoam®. BioFoam® will be positioned complementary to the wide range of EPS products offered today. The new plant has a capacity of 5,000 ton/year, which is big enough to explore other application areas as well. Due to access to unique monomers the properties of Synterra® PLA go beyond the current state of the art. With this move the Synbra Holding bv intends to take a leading position in Europe as supplier of sustainable and biologically degradable polymers from renewable resources

Material

Synterra® PLA

Synterra® PLA is a 2nd generation PLA made from very pure Lactide Monomers. The Lactic Acid is produced with sugars coming from GMO-free sugar cane crops. Synterra® PLA is available in 2 versions: PLLA & PDLA. PLLA is the standard building block already with good mechanical





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& thermal properties. PDLA can be added to improve the properties up to fully Stereo Complex with highest thermal resistance:

- PLLA/PDLA 1010 is a standard grade with good process ability (compounding)
- PLLA/PDLA 1510 is a high molecular weight grade suitable for extrusion

The Synterra® PLA is 100% renewable with low carbon footprint & Cradle to Cradle^{CM} Silver certified.

Injection Moulding compound: Synterra® IM

Synterra® IM is a PLA compound specially developed for injection moulding applications.

The compound is based on pure Synterra® PLLA with addition of Synterra® PDLA & other additives for improved thermal & impact properties.

Synterra® IM has comparable properties to ABS.

BioFoam® E-PLA

BioFoam® is a bio-based PLA Foam (E-PLA) produced in house with Synterra® PLA. It has the highest BioBased rating (between 85 & 100%) Din certified and is GMO-free.

BioFoam® has comparable physical & mechanical properties to EPS.

BioFoam® is applicable as expanded loose bead for filling or insulation properties. It can also be moulded into specific products for construction or packaging (protective or insulation). BioFoam® has a very low CO₂ footprint compared to other materials and is even better than the already very good insulant EPS.

BioFoam® at 35 g/l does not disintegrate after 26 weeks of composting at room temperature (+/- 30°C). BioFoam® is therefore not home compostable as proven by tests carried out by Organic Waste Systems (OWS) Gent, finished March 2010. Test was terminated according to the norm without visible alteration.

BioFoam® disintegrates only during Industrial composting at 70°C under the influence of moisture, bacteria and constant agitation according to EN13432.

Bi
Foam®

Contact

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