

TECNARO GMBH

Foundation

- 1998

Employees

- 28

Branches

- Compounding
- Bio-based and biodegradable materials e.g. for toys, automotive, furniture, electronics, music instruments, packaging, office, building and construction industries as well as in funeral business, agriculture and forestry

Key materials

- Lignin and lignin derivatives
- Polyactic acid, polyhydroxyalkanoates, starch, natural resins and waxes, cellulose and natural fibers

Key bio-based products

- ARBOFORM[®], ARBOFILL[®] and ARBOBLEND[®] - for moulded parts, semi-finished products, sheets (e.g. for thermoforming), films, profiles, etc.



Company

Founded in 1998, TECNARO GmbH develops, produces and markets bio-based and biodegradable materials. The business is focused on three different material families: Liquid Wood ARBOFORM[®], Wood Plastic Composites ARBOFILL[®] and Biopolymer Compound ARBOBLEND[®].

Tecnaro received several awards for innovation, sustainability and in the category supplier: Diesel Medal in gold 2011, European Inventor Award 2010, German Industry Award 2009, Werkbund label 2008, Innovation Award of VR Bank 2007, Golden Euromold Award 2000, etc. and contributed in numerous national and international research projects regarding material development based on natural resources.

Together with Fraunhofer, Tecnaro holds several patents in this field.

ARBOFORM[®], ARBOBLEND[®] and ARBOFILL[®] can be processed by injection moulding, extrusion, calendaring, blow molding, thermoforming or pressing into moulded parts, semi-finished product, sheets, films or profiles.

Today's series applications can be found in toys, automotive, furniture, electronics, music instruments, packaging, office, building and construction industries as well as in funeral business, agriculture and forestry.



Bavarian State Forestry and Jochen Rümmelein: Forest signs made from thermoformable ARBOBLEND[®].



Fujitsu, Leader in Green IT and Amper-Plastik: Palm rest of Eco-keypad made from ARBOFORM®.



Sergio Rossi/Gucci Group: Eco Pump made from ARBOFORM®. Picture: Fabian Diehr.



Suppliers

ARBOFORM®

- ARBOFORM® is based on the renewable raw material lignin which is available in huge quantities.
- ARBOFORM® is unique and protected by international patents.
- ARBOFORM® is sustainable, independent from crude oil, reduces environmental impacts and offers new markets for agriculture and forestry business.
- ARBOFORM® combines two big industrial sectors: Wood industry can provide three dimensional parts in an economic way and plastics processors can substitute their materials by an ecological alternative.

Said shortly: ARBOFORM® is "liquid wood"



Extruded decking profile made from ARBOFILL®.

ARBOFILL®

The compounds are made from plastics and natural fibers. This combination offers sustainable and aesthetical materials with good mechanical and thermal properties at very competitive costs.

ARBOBLEND®

- ARBOBLEND® is 100% biodegradable and has similar mechanical properties like e.g. ABS.
- ARBOBLEND® consists – depending on the grade – of biopolymers like the wood constituent lignin or of lignin derivatives and/or other biopolymers like polylactic acid, polyhydroxyalkanoates, starch, natural resins and waxes, cellulose, additives and natural fibers.
- Additional information can be obtained from the TECNARO-Team.



Filaments as well as thermoformable films and sheets made from ARBOBLEND®.

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