

GREEN SELECTION

Sustainable Solutions





CELLÍDOR® – BRILLIANT SUSTAINABILITY

Cellidor® – products are thermoplastic cellulose esters based on the natural resource cellulose, consisting of approximately 45 % renewable raw materials, for example from sustainable forestry. It is therefore climate neutral and reduces dependency on fossil fuels and the competition for crops needed as a food supply when recycled at the end of the product's life cycle. Cellidor® contains no bisphenol-A (BPA) and is phthalate-free.

Cellidor® unique profile of properties makes it stand out from the crowd of conventional bio-based thermoplastics. These properties include a soft touch feel and an outstanding surface quality, which remains intact even throughout long-term use, thanks to a self-polishing effect. Maximum transparency even when coloured gives Cellidor® outstanding optical properties, coupled with a high impact strength, even at low temperatures, enables Cellidor® to be used in a number of demanding applications.

Products and Adjustments

Cellidor® CP

- Cellulose-Acetate-Propionate (CP)
- Standards with 8-20 % phthalate-free plasticizer
- Food compliant grades available

Cellidor® B

- Cellulose-Acetate-Butyrate (CAB)
- Standards with 5-20 % phthalate-free plasticizer
- UV- and weather resistant grades for permanent outdoor use

Properties

- Outstanding transparency
- Brilliant and rich colors
- Lasting surface quality with self-polishing effect
- High stress crack resistance
- High impact strength
- UV- and weather resistant adjustments

Applications

- Injection molding and extrusion
- Writing instruments
- Glasses
- Tool and knife grips
- Profiles and pipes
- Electrical goods





ALTECH[®] ECO – RECYCLING COMPOUNDS

A popular method of plastic waste recovery is incineration, which burns away valuable petroleum-based materials and are then irretrievably lost. In the recycling cycle, on the other hand, these plastics are first sorted, crushed, and then processed into granulates which then can be used as raw materials, replacing virgin material to make new plastic compounds. This reduces CO₂ emissions and saves petroleum and energy that would be necessary to produce new polymers. The “reincarnated” plastics can then be used once more in a wide range of applications, such as in the automotive, E&E and construction industries.

ALTECH[®] ECO compounds are recyclate-based and offer “near-to-prime” quality. Careful raw materials selection, stringent quality controls and strict production tolerances yield products with characteristics approaching those of compounds based on prime materials. These ECO products are compounded using high-quality fillers and additives to enhance the material properties precisely to the customers’ needs.

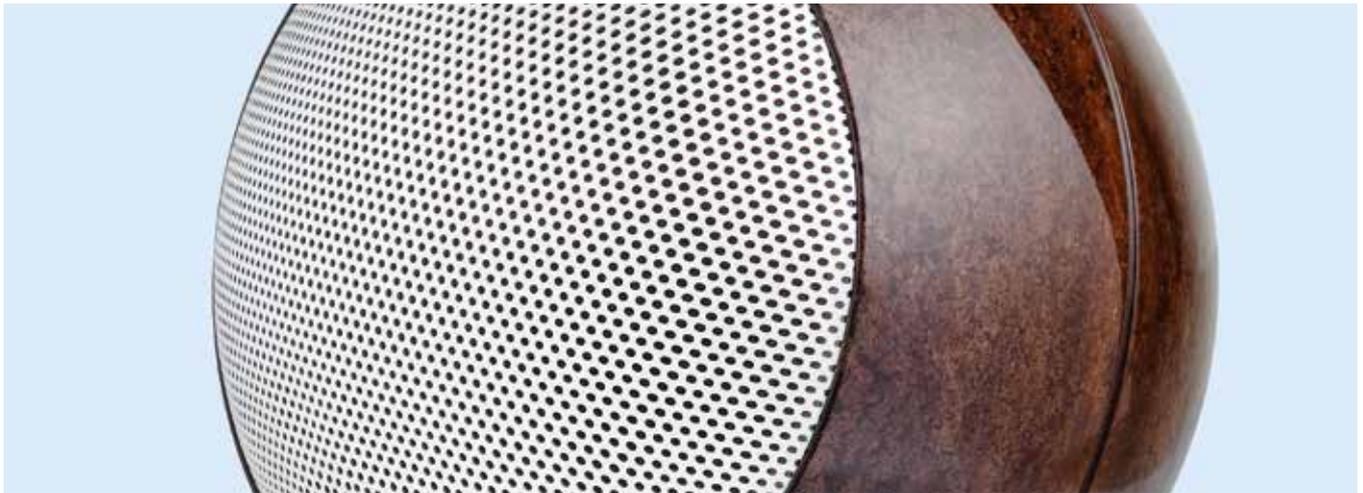
Properties

- Recycling-based technical compounds based on PA6, PA66, PP-H, PP-B, PC, ABS
- Low carbon footprint through recycling
- “Near-to-prime” quality
- Wide range of products for various applications
- Tailor-made performance
- Easy processing
- Cost efficiency

Applications

- Automotive: cam covers, beauty covers, air filter systems, cable ties
- E&E: lighting, weather resistant covers, switches
- Building & Construction: heater valves, socket frames, cable ties





TECNARO – BIO-BASED PLASTICS

TECNARO GmbH develops and produces bio-based and biodegradable compounds and distributes them in cooperation with ALBIS PLASTIC, its global distribution partner. Its primary focus is on bio-based and biodegradable compounds made of sustainable raw materials which are processed easily by all conventional methods. Exceptional product characteristics and outstandingly consistent quality make these bio-compounds attractive options for a wide range of applications. TECNARO products are divided into three groups of bio-compounds:

- **ARBOFORM®** is also known as “liquid wood”, since the materials are based on lignin, the “natural wood polymer”. This by-product of paper manufacturing can now be put to good use.
- **ARBOFILL®** is a group of natural fiber-filled compounds. Their aesthetic qualities are what make these partly bio-based compounds especially appealing.
- **ARBOBLEND®** compounds are made up of different bio-polymers and vary widely in terms of processing and areas of application, depending on product type.

	ARBOFORM®	ARBOFILL®	ARBOBLEND®
Raw materials	<ul style="list-style-type: none"> • Lignin • Natural fibres • Natural additives 	<ul style="list-style-type: none"> • Natural fibres • Plastic 	<ul style="list-style-type: none"> • Bio-polymers • Natural additives • Natural fibres
Biodegradable	Yes	No	Depends on formulation
Features	<ul style="list-style-type: none"> • Combines all properties of naturally-grown wood • Unique worldwide, and protected by patents 	<ul style="list-style-type: none"> • Highly aesthetic materials due to the combination of plastics and natural materials 	<ul style="list-style-type: none"> • Mechanical property profile similar to impact-resistant plastics
Possible applications	<ul style="list-style-type: none"> • Musical instruments • Loudspeakers • Design objects 	<ul style="list-style-type: none"> • Household • Office equipment • Furniture 	<ul style="list-style-type: none"> • Packaging • Electrical appliances • Office equipment





Climate change and the impending depletion of fossil fuel resources are among the most significant challenges society faces in the 21st century. We as industrial companies accept this responsibility and will rise to this challenge.

Efficient production facilities, clean energy sources, reduced emissions and waste – the industrial sector has been on the right path for a long time. Yet a great deal of potential still remains undiscovered, including in the area of sustainable products. Here, in particular, the market calls for new, sustainable solutions that prioritize the protection of nature.

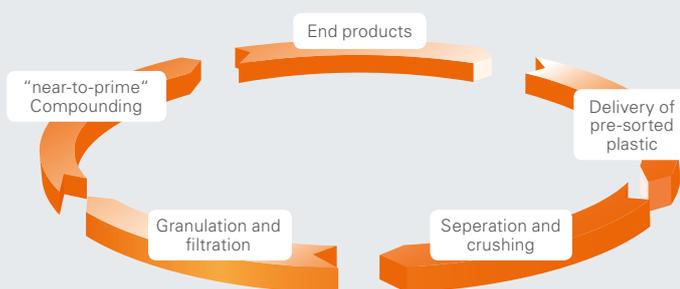
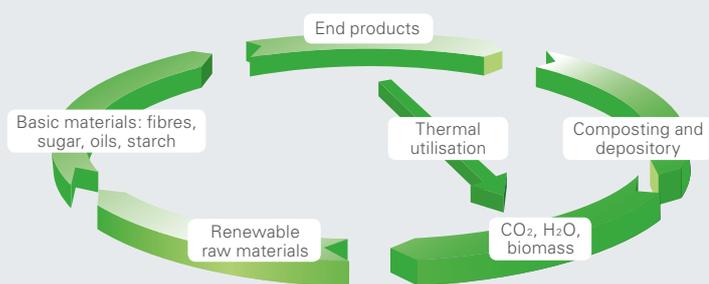
In this brochure, ALBIS has compiled a selection of alternative plastic solutions that contribute in different ways to the preservation of fossil fuel resources. One thing is especially important to us in this regard: whether they are recycled, renewable, or biodegradable, all of our products remain first-class when it comes to sophisticated properties and consistently high material quality.

THE BIOLOGICAL CYCLE

The plant growth cycle is as old as nature itself. Everything the plant world produces eventually returns to it sooner or later, completely, cleanly, and sustainably. Plastics based on renewable raw materials integrate into this cycle partly or even entirely through composting as part of thermic recovery.

THE RECYCLING CYCLE

Material recycling refers to closing the circuit of manufacturing, using, disposing of, and reusing or recovering plastics. Old plastics are sorted by type and converted into high-quality recyclates, making the use of new petrol-based raw materials unnecessary. An environmentally friendly cycle that also saves a great deal of energy in production.





CERTIFICATION

Our quality management system is certified in compliance with ISO/TS 16949:2002. The certificate is checked and renewed regularly by the German Society for Certification of Management Systems [Deutschen Gesellschaft zur Zertifizierung von Management-systemen mbH (DQS)].

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