

Pebal and ecology



The art of packaging

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Multichannel ecological printing

BIOFOL FLEX

Biodegradable, Compostable and Bio-Based Films

PEBAL[®]

BIOFOLFLEX B10

home compostable flexible packaging

- Polybutylene succinate foil (PBS) is compostable in standard ambient condition at open air landfill sited, in home garden compost bins or in soil along with other organic waste, without requiring special composting facility
- Decomposes into biomass, carbon dioxide and water in the environment, soil or home compost in a short period of time (weeks to months) under the action of moisture and microorganism
- Produced from renewable natural resourced such as sugarcane, cassava and corn

Certification and film characteristics

- Certified by TÜV Austria "OK Compost Home"
- HD Flexo print up to 8 colours with home compostable inks
- Licence to print "OK Compost Home logo" with a unique code of Pebal - S1015
- OK Compost Home Certification valid for thicknesses up to 62 microns
- The highest degree of biodegradability on the market
- Approved for food contact and in accordance with BRC standards
- Excellent heat sealability, optical properties and puncture resistance



BIOFOLFLEX B20

industrial compostable flexible packaging

- Polymer of polylactic acid (PLA) - bio-decomposable polyester
- Compostable in industrial composting facility along with other organic waste
- Produced from renewable natural resources such as corn and potatoes
- Independent from fossil resources – 100% bio-based product

Certification and film characteristics

- Milky colouring
- High puncture and tear resistance
- Excellent heat sealability
- High-definition flexoprint up to 8 colours with compostable inks
- Approved for food contact and in accordance with BRC standards

BIOFOLFLEX B30

PE bio-based flexible packaging

- Co-extruded polyethylene film made from renewable natural resources
- Independent from fossil resources – the input granulate is purely natural material such as sugarcane, corn, etc.
- More than 80% of the input material from renewable resources

Certification and film characteristics

- Clear high-transparent foil
- Sealability, mechanical and optical properties comparable to synthetic PE foils
- Retains same PE film properties and is 100% recyclable

Use of BIOFOLFLEX B10, B20, B30

- Film for packing magazines and catalogues
- Sacks and bags on roll for packing fresh fruit and vegetables (e.g. carrots, potatoes, apples)
- Macro-perforated films with excellent sealability for automatic packaging of fresh fruit and vegetables
- Flow-pack packaging for automatic horizontal and vertical lines
- Films for laminating with other compostable materials (e.g. paper, cellulose foils)
- Packs for pastries or vegetables, flowers conical bags, sanitary aids, food products, etc.
- Shrinking and standard packaging film for wholesale, logistics, automotive, hygiene and food products, furniture and other industries



Multichannel printing EGP = CMYK + OGV

Further advantages of multichannel printing:

Printing using 7 colours in the printer (cyan, magenta, yellow, black, orange, green, violet)

Ecological printing

Multichannel printing provides for:

- saving up to 35% of used ink and solvent compared to standard printing
- significant reduction of the use of detergents
- remarkable reduction of hazardous waste produced

- Multiple themes can be printed simultaneously, regardless of the number of colours used in the print data
- HD quality printing
- Short time order planning – can be included anywhere in the production plan
- Small orders welcome – no need to adjust Pantone® colour hues, print results match pre-set GMG proofs
- More environmentally friendly



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At present, plastic packaging is generally considered one of the major environmental issues. Plastics have become, quite wrongfully, a public enemy.

During the development of plastic films, most of the world's leading manufacturers (including Pebal) evaluate and take into account the environmental impact of their products. They make every effort to reduce film strengths, consult their customers in order to optimize the size, weight and other parameters of packaging, recycle films, and recommend the final product where sanitation standards make it possible.

The problem, of course, is not the manufacture of plastic films; it rather is the handling of them after their use. Some types of plastic packaging still do not have a 'greener' alternative. One could think they may be replaceable by paper products, but they are not.

Plastic films are irreplaceable, for example, in extending the shelf life of food. This goes hand in hand with a significant reduction in waste, both at the retail chain level and at the end consumer level.

However, the food industry is not the only field where the use of plastics is irreplaceable. Healthcare and pharmacy industries are large and demanding consumers of plastics with the highest demands. Only plastics produced in special environments (compliant with BRC certification, which Pebal also has) are able to meet these requirements.

A relatively new and incredibly fast-developing segment is biodegradable films. The producers learned some lessons from not always ideal waste management and they develop, and some are already producing, types of film that will only pollute the environment for a limited and relatively short period of time.

To us in Pebal, plastic packaging is not only a business, but also a perfect example of continuous and sustainable development and pushing the boundaries in product protection, extending their shelf life and maintaining sanitation requirements.

We make every effort to keep our products and their manufacturing as environmentally friendly as possible.

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