RAYLIF

The RAYLIF product line unites products dedicated to the circular economy, designed for the realization of the most ambitious green dreams. These are bioplastic solutions that can be directly used in your production. However, If the need is to color the biodegradable resin you are currently using, without compromising its properties, we can offer masterbatches with biofillers and organic pigments.

GAYPA COLORBATCH
A member of the **GRAFE** Group

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GAYPA COLORBATCH

RAYLIF

RE-TINT

The question arises: how to color PLA and other green plastics while maintaining the environmental benefits? To answer this question, our chemists, through extensive academic study of bioplastics, have been able to map the pigments already used in coloring plastics, identifying those that do not compromise the biodegradability and compostability. The masterbatch we offer you for coloring PLA, WPC and Mater-Bi consists of a combination of chemically suitable organic pigments and biodegradable polymer-based carriers. These, together, ensure that the final product is not altered.

Technical note: In general, RE-TINT products are made of PLA, a thermoplastic resin obtained from the fermentation of sugar cane.

CELLULOSE ACETATE

Cellulose acetate is a biopolymer where its original core material is plant-based. It is a resin with a biological backbone plasticized by the most modern technologies. Its special properties can be tailormade as they depend on its basic formulation. The main feature of this bioplastic is its excellent transparency that allows for varied colorations and aesthetic effects. In addition to this, it also shows good rigidity and strength.

Technical note: Cellulose acetate is based on renewable tree pulp as source material.

AGRICYCLE

Reducing the ecological impact is one of the main issues the plastic industry faces on a daily base. The dream of making a masterbatch with reduced environmental impact has finally become a reality by means of the AGRICYCLE product line. This masterbatch combines coloring pigments and additives with biofillers, which are organic waste material derived from crops, to offer an environmentally friendly colored product. This can be applied regardless of the original plant base. The natural backbone provides the technically functionality and makes it easily disposable. The resulting bioplastic is aesthetically unique due to the plant fillers enabling the special texture and reducing its carbon footprint.

Technical note: : AGRICYCLE products ensure the use of plant waste material as an alternative to landfill procedures.

*Some current projects listed in the table below.

AGRICYCLE

Name	Origin	Color	Possible use
Raylif Agricycle MF 992/1W	food by-products	white	naturall colorant, nuclenting agent, carbon footprint reduction
Raylif Agricycle MF 993/1W	Corn by-products	yellow	
Raylif Agricycle MF 994/1W	sunflower by-products	green/ brown	
Raylif Agricycle MF 995/1W	winemaking by-products	purple	

RAYLIF

Recommended dosage:	ca 3%
Minimum compliance:	Packaging
Technical specifications:	products suitable for coloring non-oil based plastic / non-fossil fuel based. Minimal customization.

* Specifications agreed with customers are reported in individual technical documents.