



# Company profile

*The company Panara a.s. was established in 2001 as production and trading company of PE plastics films. Since 2006 the company entered into bioplastics area with the goal to develop biodegradable-bio based blends for different types of plastic processing.*

Presented great results achieved by processing PHA and PLA + other components were obtained thanks to collaboration and partnership with Academic field in Slovak Republic.

R&D activities with the scope of multicomponent biobased and biodegradable blends based on PHA and PLA polymers have now been extended to industrial production. We are currently launching a modern industrial line with a capacity of 4200 ton per year.

New developed material is registered under trademark Nonoilen®. Nonoilen® products contain Luminy® PLA from TotalEnergies Corbion.



## 01 For potential customer, we are able to provide testing and simulation of different processing technologies of our blends and:

- Provide services in material modification process
- Provide Technical support - introducing new material into existing production lines by our individual partners and for different final applications - on site assistance
- Panara is able to grant required technical support provided by its Internal professional staff in the field of polymer processing

## 02 Specific basic characteristics of our material:

100% Biobased    100 % Biodegradable    100 % Compostable

- Material based on blending of various components — PHA, PLA and other minor bio based components
- Material made of biodegradable polyesters and biodegradable additives (modifiers, fillers)
- Material may be modified in a wide range of properties from very rigid to highly flexible
- Material may be processed on standard production lines used for plastics processing

## 03 Business potential :

The high potential of the advanced multicomponent biodegradable material can be implemented by a tailor-made material modification (based on specific requirements) that will lead to the replacement of conventional plastic production and to the market launch of a new bioplastics products in various application sectors and segment applications:

- Packaging materials such as films, bags and food packaging
- Artificial food casing production
- Fibres
- Agriculture films+
- 3D printing, medical and automotive industry applications



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