


Trainings' Catalog

Biobased and/or Biodegradable Polymers



2024

NaturePlast
Bioplastics Expert

EDITORIAL

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Made up of technical and scientific experts from NaturePlast, our trainers offer you personalized support to explore or deepen your knowledge on biobased and/or biodegradable polymers.

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CEO and founder of NaturePlast

Engineer in materials Science

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Project manager
Trainer

PhD. in Materials Chemistry

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Scientific director
Trainer

CONTENTS

01 Module A

Biobased and/or biodegradable plastics: Market, materials and applications

Objective: To acquire or consolidate basic knowledge on biobased and/or biodegradable plastics, in order to integrate them into a product innovation strategy.

Audience profile: Plastics manufacturers, end-users, universities and technical centers. Staff from engineering, R&D, production, marketing, design, purchasing, etc.

Prerequisite: None.

Intra-company
On your site or remotely

2 200 € (VAT not included) for all participants (excluding travel expenses)

or

Inter-company
Remotely

Session
18/04/2024

1 000 € (VAT not included) by participant

7 hours

PROGRAM

What is a biobased plastic?
A biodegradable plastic?

- Definitions, general data on production and end-of-life.
- Market data, regulatory data.

The different biobased and/or biodegradable polymers

- Materials produced at industrial level, today and tomorrow.
- Comparison of their specific features, properties and costs.
- Introduction to LCA and critical analysis.

Choosing your material

- Improving the properties of biobased and/or biodegradable plastics.

The +

- Training content tailored to your profile and questions.
- A comprehensive program giving you the keys to understand the ecosystem of biobased and/or biodegradable plastics, and exploring deeper your topics of interest: technical, market, regulatory, environmental performance, etc.

02 Module B

Biobased and/or biodegradable plastics:
Market, materials and case study

On your site or on NaturePlast's site or remotely

2 200 € (VAT not included) for all participants (excluding travel expenses)

7 hours

Objective: To acquire or consolidate basic knowledge on biobased and/or biodegradable plastics and initiate consideration on the integration of these materials.

Audience profile: Plastics manufacturers, end-users, universities and technical centers. Staff from engineering, R&D, production, marketing, design, purchasing, etc.

Prerequisite: None.

PROGRAM

What is a biobased plastic?
A biodegradable plastic?

- Definitions, general data on production and end-of-life.
- Market data, regulatory data.

Data on few biobased and/or biodegradable polymers

- Comparison of their specific features, properties and costs.
- Introduction to LCA and critical analysis.

Choosing materials for your application

- Analysis of company's own specifications.
- Highlighting one or several solutions for the targeted application.
- Discussions on the strengths and weaknesses of the potential solutions.

The +

- Training content tailored to your profile and questions.
- A comprehensive program giving you the keys to understand the ecosystem of biobased and/or biodegradable plastics, and exploring deeper your topics of interest: technical, market, regulatory, environmental performance, etc.
- Preliminary case studies on your samples and/or products.

03 Module C

Biobased and/or biodegradable plastics: Processing and specific features

On NaturePlast's site

2 300 € (VAT not included) for all participants

7 hours

Objective: To acquire or consolidate basic knowledge on biobased and/or biodegradable plastics in order to use them on conventional equipments.

Audience profile: Plastics manufacturers, end-users, universities and technical centers. Staff from engineering, R&D, production, marketing, design, purchasing, etc.

Prerequisite: None.

PROGRAM

Compounding on twin-screw extruder

- Explanation of the process and specificities of biobased and/or biodegradable plastics.
- Compounds production.
- Extrusion-calendering and/or blown film extrusion laboratory tests.

Injection molding of testing bars

- Explanation of the process and specificities of biobased and/or biodegradable plastics.
- Injection molding of testing bars.

Materials characterization

- Presentations of some key trials for the plastics industry.
- Laboratory tests: tensile properties, impact strength, thermal resistance.

The +

- Training content tailored to your profile and questions.
- Alternating theoretical and practical sessions in the workshop.
- A comprehensive program that gives you the keys to understand the specific features of biobased and/or biodegradable plastics, so you can adapt them to all your projects.

04 Module D

Injection molding of biobased and/or biodegradable plastics and compounds incorporating by-products

On your site

2 200 € (VAT not included) for all participants (excluding raw materials and travel expenses)

7 hours

Objective: To acquire or consolidate basic knowledge on biobased and/or biodegradable plastics in order to use them on conventional equipments.

Audience profile: Plastics manufacturers.

PROGRAM

Brief theoretical aspects

- Some specificities on the processing of biobased and/or biodegradable polymers.
- Some specificities on by-products compounds for injection molding.

Practical tests

- Injection tests of different materials on one of your injection molding equipment.
- Study of the parameters' influence on part quality.

The +

- Training content tailored to your profile and questions.
- Range of bioplastic materials provided by the trainer, so that you can experiment them together on your industrial tools.

Other ways to support you

01

Technico-economical studies

02

R&D

Development of formulations

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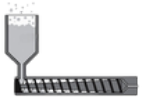
03

Distribution of raw materials

04

Customized compounds production



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By-products recovery

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