



Reactive Extrusion: synthesis and modification of polymers

★★★★★ (28) participants

Reactive extrusion is a very versatile technology that allows polymerisation reactions and polymer modification to be carried out using an extruder, usually a corotating twin-screw extruder, which is normally used to obtain compounded materials.

In reactive extrusion, the extruder is used as a horizontal chemical reactor, in which properties of polymers and polymer compounds can be synthesised, modified and improved. For example: to give adhesion to different substrates, to make polymer blends compatible with fillers or fibres, to perform cross-linking reactions or controlled degradation of polymers, etc.

This course will review the reactive extrusion process, and the advantages of its application in the plastics industry, mainly in the synthesis and modification of polymers.

Registration period

Until 08 November 2023 or full capacity



Date and Schedule

09 Nov 2023

From 11:00 AM to 12:30
AM (CET)



Duration

1,5 class hours



Location

Online



Price

AIMPLAS members
160€

Non-members: 200€

Desempleados: 160€ 10% de descuento a partir del 2º asistente de la misma empresa 10% de descuento si te inscribes 3 semanas antes del inicio del curso Descuentos acumulables Incluye asistencia y documentación Tarifa exenta de IVA

Objectives

- To learn about reactive extrusion technology as a tool for the synthesis and/or modification of polymers.
 - To discover its advantages, possible uses and reactions that can be carried out by reactive extrusion.
-

Who is it aimed at?

- Manufacturers of thermoplastic compounds, concentrates or masterbatches and biopolymers.
 - Engineers and chemists in polymer R&D with experience in the extrusion process.
 - Se dará prioridad en las inscripciones a las empresas industriales asociadas y clientes
-

Programme

WHAT IS REACTIVE EXTRUSION?

CLASSICAL SYNTHESIS VS. REACTIVE EXTRUSION

- TPU, polyesters, PA, radicals (grafting, crosslinking, rheology control), chain extension, compatibilisation, etc.

TECHNICAL CONSIDERATIONS FOR THE SCALE-UP PROCESS

- Laboratory scale
 - Reactive extrusion in pilot plant
 - Transformation
-

Open calls

17 Dec 2030

📍 Online

Teaching Staff



Miguel Ángel Valera Gómez

Personal investigador de AIMPLAS /
AIMPLAS Researcher

Methodology

- A webinar is an online web-based meeting where participants can see what speakers display in their screens and listen to their explanations. Webinars are made in real time and on a specific date and hour and their main characteristic is interactivity between the teacher and the attendees. Attendees only need a computer with active audio and Internet connection to interact with the teacher by using the chat.
-

Comments

- [Política de cancelación y anulaciones](#)
-

Organized by:

