







Aeronautics







Electrical-Electronic Energy











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# IN PLASTIC

EXTRUSION

Extrusion is one of the most widely used technologies for the transformation of plastic materials, mainly due to its versatility. Different products such as tubes, profiles, bottles, sheets and films are produced by extrusion.

Many different plastic materials can be produced by extrusion, from synthetic to natural materials, with different properties and for a wide range of applications.

R&D

Lines



- → Biodegradable materials, biopolymers, fibres, additives and fillers of renewable resources, etc.
- Improvement of properties of conventional materials (gas barrier properties, surface properties, thermal resistance, fire resistance, mechanical properties, etc.)
- → Multifunctional structures: coextrusion, biextrusion, lamination, coating, etc.
- → Reactive extrusion.
- $\rightarrow$  Decontamination and removal of odours and volatile compounds with CO2.
- → Foamed products production.
- → Functional printing.



**Services** 



Те





# Pilot plants for the optimization and development of new formulations and products:

- $\rightarrow$  Monolayer and multilayer (up to 5 layers) cast sheet extrusion.
- → Monolayer and multilayer (up to 5 layers) blown film extrusion.
- → Tubes and profiles with various geometries and dimensions. Biextrusion of tubes.
- $\rightarrow$  Foamed profile and sheet extrusion.
- $\rightarrow$  Extrusion blow moulding of monolayer and 3-layer bottles.
- → Lamination of flexible films onto different substrates.
- ightarrow Removal of volatiles and odours.
- → Reactive extrusion.
- → Extrusion coating on different substrates.
- Filament extrusion (for additive manufacturing and other applications).
- Ancillary technologies: Compression moulding and thermoforming.

Technical assistance.

### Training

→ Master's Degree in Plastic Materials and their Processing Technologies
→ On-site and online courses in Plastics Extrusion.

- → In-company tailored courses.
- → Webinars.
- → Seminars and Technical Workshops.
- www.formacion.aimplas.es

## Competitive Intelligence

State-of-the-Art Reports, patent search, technical and scientific literature searchs, standards and legislation watch.

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