

COMPOUNDING

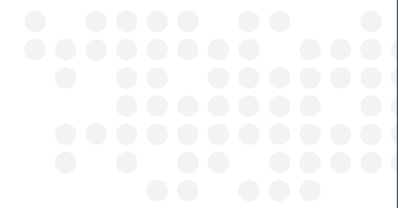


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AIMPLAS
PLASTICS TECHNOLOGY
CENTRE



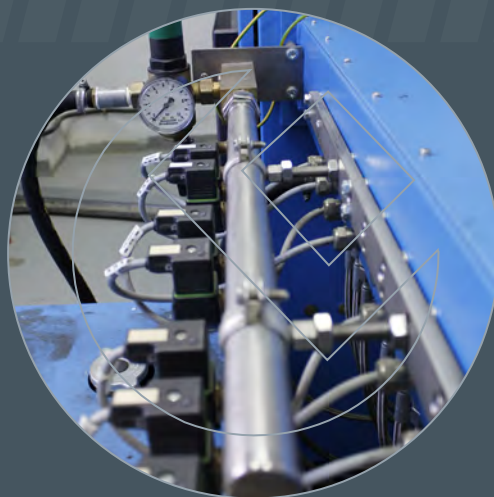
Innovation
IN PLASTIC



COMPOUNDING

The Compounding process is the base for the development of new plastic materials with advanced properties.

Since it is aware of the huge variety of existing compounds, AIMPLAS has focused its services and equipment for each kind of compounding companies, thus advising them for process improvement and development of new products in: R&D, technical assistance, competitive intelligence and training.



R&D Lines

- **Technical plastics:** synthetic fibres, flame retardants, fillers, nanomaterials, electrical and thermal conductivity
- **Nanomaterials:** development of nanocomposites with CNT, CNF, graphenes, nanoclays, nanometals and others. Optimization of dispersions and final properties
- **Masterbatch:** stabilization of polymers, improvements of pigment dispersion and introduction of new additives
- **PVC:** development of new formulations, adaptation to new standards and plastification studies
- **WPC:** formulation of plastic-wood composites, improvement of mechanical properties, fire resistance and processability
- **Bioplastics:** development of new bioplastics and blends, improvement of mechanical (reinforcement with natural fibres), thermal and fire-resistant properties
- **Recycling:** compatibilization of different plastics, devolatilization, elimination of odours and decontamination
- **Reactive extrusion:** development of thermoplastic elastomers, polyesters, compatibilities, grafting or controlled degradations

Services

Technical Assistance

- Development of tailor-made composites. Short batches of special compounds
- Optimization and adjustment of formulations
- Studies of fillers and fibres dispersion
- Extrusion process simulation in co-rotative twin-screw extruder: optimization of the production and the screw configuration. Scale-up from pilot plant to industrial extruder
- Technical assessment on additives, fillers and reinforcements
- Compound adaptation to new standards and regulations
- Incorporation of new additives and fillers in plastics

Competitive Intelligence

AIMPLAS offers other services regarding compounding and the elaboration of specific state-of-the-art reports to companies: additives, fibres, fillers, modification of polymers, legislation, etc.

www.observatorioplastico.com

Training

The complete course portfolio of AIMPLAS is adapted to most companies and needs in formulation of thermoplastics.

- Compounding course: "Compounding: the art of mixing, reinforcing and incorporating additives to plastics"
- Course on additives, fillers and reinforcements: "Additives, fillers and reinforcements. Tailor-made plastics."
- Course on Compounding and formulation for PVC
- Master's degree in Plastic Materials and their Processing Technologies
- Webinar on different subjects related to compounding
- Tailor-made courses for companies

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