

AGRICULTURE AND THE AQUATIC ENVIRONMENT

INNOVATION in PLASTICS At AIMPLAS, we provide solutions to the main problems facing companies in the plastics sector that work with agricultural and livestock applications, forestry, and the aquatic environment.

Environmental impact; protection of biodiversity in marine and terrestrial ecosystems.

Improvement of the functionality of the different plastic products used in this sector.

Control of pests and diseases.

Polymers with enhanced properties by combining polymers, additivation and/or chemical modification by reactive extrusion; e.g. physical, mechanical, thermal, UV or chemical resistance, and permeability.

Material structures for its application in agro-industrial, livestock and aquatic constructions. Waste reduction; agricultural waste, marine litter, and forest management.

Animal welfare.

Sustainable production; agricultural, livestock and aquaculture.

Functionalized polymers with features that help protect crops (e.g. biocidal, antimicrobial, anti-thermal, light diffusers).

Plastics with controlled release of substances (e.g. natural pest repellents, fertilizers, anti-root membranes).



CUSTOMIZED

DEVELOPMENTS

SHORT-TERM SOLUTIONS

Biodegradability and compostability studies and advice on the certification of compostable products.

Advice on the causes of failure, breakage, degradation, installation issues, etc.

Control and characterization of plastics in agriculture: e.g. mechanical and thermal properties, ageing and analysis of UV additives.





DEVELOPMENT OF MORE SUSTAINABLE PLASTICS

Use of recycled plastic, recyclability studies, control and characterization of agricultural products using recycled plastic.

Development of biodegradable and compostable products in different media.

Evaluation of the effectiveness and efficiency of using plasticulture products obtained from biodegradable-compostable materials. Environmental effects.

Functionalization of materials with harmless additives for terrestrial and aquatic ecosystems.

Elimination of the by-products generated by the degradation of plastics in plasticulture, forestry, livestock, and aquatic environment applications.



WASTE MANAGEMENT

Using agricultural, forestry and livestock waste to obtain biopolymers and additives or using it as fibres and fillers in plastic products.

Identification, selection and classification of marine litter in different fractions and its reuse. Using and recovering plasticulture waste through organic recycling processes. Compost quality assessment in intermediate stages of the recovery process.





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