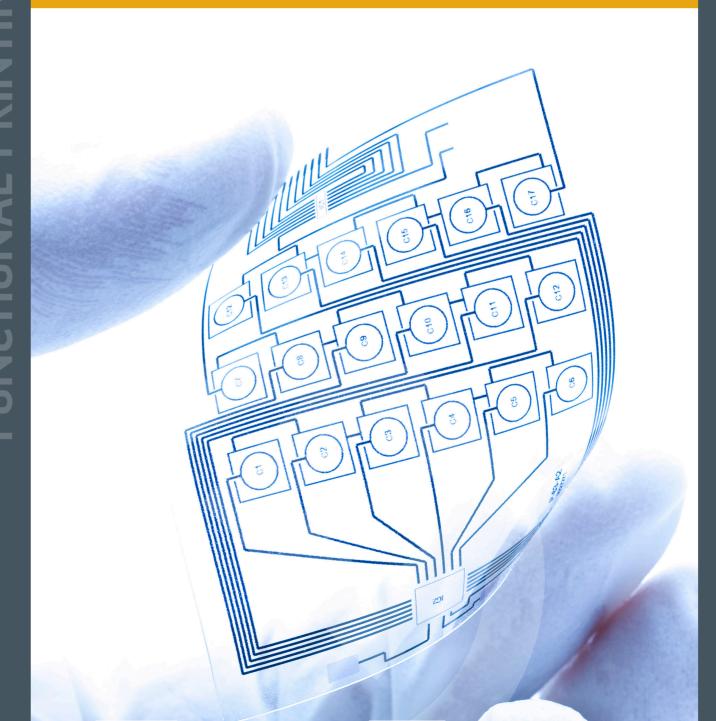
AIMPLAS PLASTICS TECHNOLOGY CENTRE



Innovation IN PLASTIC

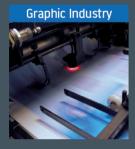


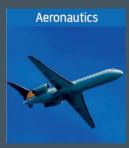


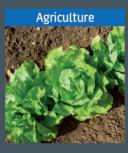
























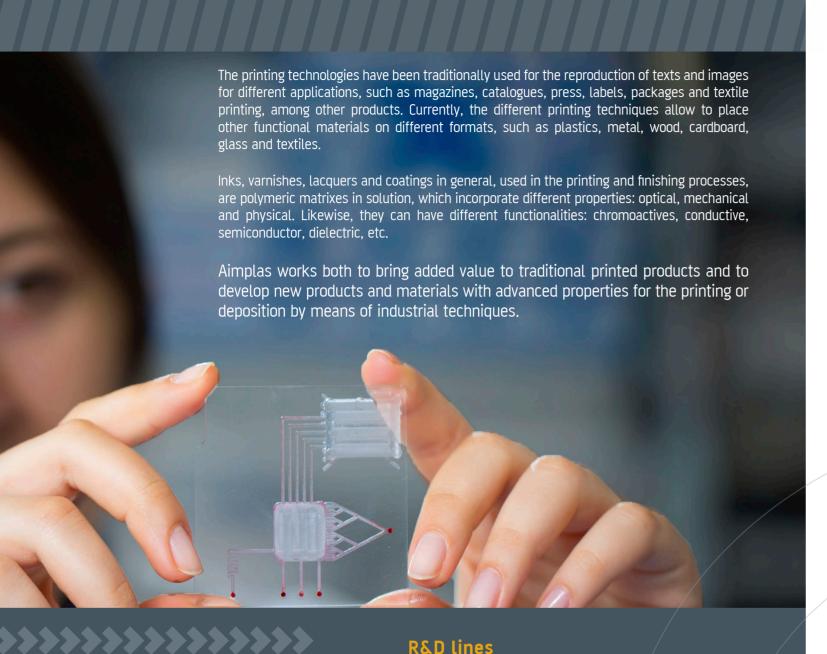
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R&D lines

- Incorporation of new functionalities in traditional printed products:
- » Traceability, monitoring, anti-counterfeiting, etc.
- » Barrier properties, bactericide properties, mechanical properties, surface properties.
- » Development of intelligent packages and labels.
- » Development of active packaging.
- → Development of inks, varnishes and lacquers with new and improved functionalities and properties.
- → Development of indicators: time-temperature, freshness, moisture, leakage, etc.
- → Printing of flexible electronic components: RFID antennas, printed circuits, resistors, etc.

Technical assessment

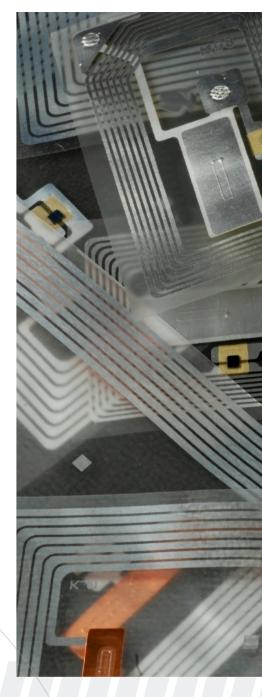
- → Study and determination of optimum dispersion conditions of additives, fillers and/or nanomaterials in polymeric matrixes.
- → Study of technical and economic feasibility to develop new products.
- → Analysis of the substrate/ink/machine interaction: selection of the combinations of the most adequate materials and processes to develop new products.
- → Printing of small print-run demonstrators.
- → Accomplishment of the legislation applicable to printed products (contact with food, waste management, labelling, emissions, etc.).
- → Sustainability of the printed product: biodegradable materials, recyclability, life cycle assessment and carbon footprint.

Analysis and testing

- → Optical properties: colour, brightness, transparency.
- → Physical-mechanical properties: adherence, abrasion, roughness and scrub and scratch resistance.
- → Surface tension and contact angle.
- > Contact with food legislation: global and specific migration.
- → Accelerated weathering
- → Identification/quantification of additives (FTIR, Chromatography).
- → Identification/quantification of fillers and reinforcements (FTIR, TG, Raman).
- Identification of printed structures and layer thicknesses (FTIR, SEM, DSC).

Training

- → Specialised and customised training for the company.
- → Identification of perspectives for the future on the printing industry (seminars, technical workshops).





Competitive Intelligence

Elaboration of specific state of the art, patent searching, standards, legislation, sector news and scientific-technical reports.

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