



ADDIPLAST GROUP



RESEARCH CENTER

Addiscience

ADDISCIENCE® R&D CENTER

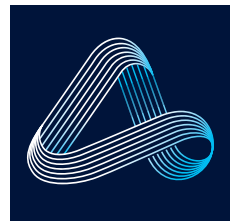


Excellence
Proximity
Reactivity



Quality is an imperative of your requirements. The implementation of quality initiatives within the ADDIPLAST GROUP has gone beyond the methods and tools, it is firmly anchored in the company culture. These quality initiatives are values shared with all our collaborators.

The continuous improvement of the processes, methods and organization contributes to optimize our performance, our reactivity and make our group more agile.



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A real center
of competence
and expertise

ADDISCIENCE® R&D CENTER

Real Center of competence and expertise

MISSIONS

ADDISCIENCE® is the Research & Development Center of the ADDIPLAST GROUP, dedicated to innovation, quality and research for new technico-economical solutions. We have two sites dedicated to research: one in Saint-Pal-de-Mons (43) and the other in Villers-Saint-Paul (60).

Thanks to its scientific network, ADDISCIENCE® takes part in many collaborative National and European projects, mainly based on :

- Lightweighting
- High and very high performance compound
- Compound with Lower Environmental footprint (natural filler)
- New color or aspect solution
- Flame retardancy (Halogen Free)
- Reactive Extrusion

The main missions of ADDISCIENCE® and for extrusion process for compound or masterbatches (color and functional)

- The development of formulations
- The characterization of materials
- The production for customer sampling
- The process support for industrialization

Creating
TOMORROW'S
products **TOGETHER**

MEANS

COMPOUNDING

ADDISCIENCE® has twinscrew extruders compounding tools to :

- Develop and improve thermoplastics composition based on matrix and additives, as pellets, powders and liquids
- Provide representative samples around 20 kg up to 100 kg for customer evaluation.
- Optimized process parameters to prepare and assist industrialization on our production lines.

INJECTION

ADDISCIENCE® has injection molding tools to provide :

- Standardized specimens for characterization tests
- Plates for colour matching and surface appearance
- Colour master control samples
- Technical support to assist your injection moulding parameters
- Shrinkage

LIFE CYCLE ASSESSMENT

- Ecoprofile

EXTRUSION & COMPRESSION

ADDISCIENCE® has blown film and tape extrusion single screw and compression molding tools, which allow :

- To control the optical quality of the final product
- To check the fillers dispersion quality (Filter Test)
- To estimate the mechanical properties
- To produce specimens of various thicknesses
- To provide samples/ Films on request

INNOVATION & CO-DEVELOPMENT OUR MEANS TO ACCOMPANY YOU

ADDIPLAST GROUP has chosen to invest massively in innovation. All our scientific skills and technical means are grouped together in our R&D department ADDISCIENCE® and represent 10% of our human resources.

COLORIMETRY

ADDISCIENCE® has a laboratory equipped with light cabins allowing :

- The adjustment of colour-matching : RAL, PANTONE, NCS, RNUR, PSA
- The creation of shades, special effects and appearances : metallic, glitter effect, wood coloured, translucide, visible fibers.
- parkle effects

FIRE RESISTANCE TESTS

Addisience has a laboratory to mesure the flammability :

- Bench for complete UL94 test
- Glow Wire Test(GWFI and GWIT)
- Limit Oxygen Index (LOI)
- Falling Ball Test

SPECTROSCOPY

ADDISCIENCE® has a laboratory for functional and cristallographic elementary analysis equipped with :

- X-Ray Fluorescence
- Reflexion or transmission InfraRed spectroscopy
- DSC
- Scanning Optical Microscope & Electronic Microscope
- RAMAN Spectroscopy

PHYSICO-CHEMICAL

ADDISCIENCE® has a physico-chemical laboratory equipped with :

- Melt Flow Indexers
- Viscosimeter
- Densimeters
- Ash (inorganic, synthetic and natural filler) content
- Moisture anf Humidity Analyzers

THERMO-MECHANICAL

ADDISCIENCE® has a laboratory for thermo-mechanical tests equipped with :

- A controlled atmosphere conditioning oven
- A cold conditioning oven
- A controlled hydrometry and temperature room for mechanical testing :
 - Tensile and Flexural Test
 - Charpy and Izod Impact test
 - Shore Hardness
- HDT
- Vicat

ADDISCIENCE® has a laboratory for conductivity measures :

- Surface resistivity
- Comparative Tracking Index