WHAT IS EU’S LIFE PROGRAMME?

“LIFE is the EU’s financial instrument supporting environmental, nature conservation and climate action projects throughout the EU. The general objective of LIFE is to contribute to the implementation, updating and development of EU environmental policy and legislation by co-financing pilot or demonstration projects with European added value.”

CCaLC Carbon Footprinting Tool
Results will be validated with University of Manchester
The Fameccanica project LIFE Glueless™ “Petrol based Glue and Energy consumption reduction in diapers production processes”, aims to demonstrate to industry and policy makers that significant environmental impact reduction in Absorbent Hygiene Products (AHP), such as diapers, can be realized, with appropriate solutions that will be the subject of this project. The project will showcase how environmental impact can be reduced, while cost competitiveness can be held or even increased.

The Frontal Tape Glueless Lab Test

Details of samples of Glueless™ ADL application

GLUELESS™ lamination of back ears for baby diapers

Now a commercially available solution with Fameccanica laminating machine model FLS for a Unique technology for in-line processing of breathable laminates with ultrasonically bonded transpiring spots. (Patented solution)

GLUELESS™ ADL application

Fameccanica has completed the qualification of its GLUELESS™ application of ADL (acquisition-distribution-layer) on diaper topsheet.

The objective of this project phase has been to make available a proven technology to be used on Fameccanica converters with commercially available raw materials and a validated set of product performance data.

The lab test demonstrated that the process and technology developed are appropriate to realize this type of application at the full speed of the commercially available diaper machines.

Also, the product performance validation phase shows that the key performance indicators selected (peel force test and fluid handling-acquisition) meet the initial objectives.

GLUELESS™ Absorbent Core concept

Fameccanica has realized and validated a proper Absorbent Core concept design, capable to achieve the Glueless Project objective. Thanks to the installation of a dedicated Lab test stand for the manufacturing of hand made Glueless Absorbent Cores, it has been possible to create a proof-of-concept and the results achieved were successful according to the expectations. This allowed to go ahead with the new project steps.

The Glueless™ test stand has been installed to produce the defined Core solution at the target speed and obtain a consistent number of samples realized in the real production conditions with all the quality and performance tests defined.

GLUELESS™ Elastic: the new Fameccanica solution for intermittent elastic application

Fameccanica has identified an innovative system for the intermittent elastic application. The new system has been tested in the laboratory with successful results and the solution confirmed to be a clear step-change in the processing of this application vs. the known art in the field, thus providing the evidence that the identified solution was adequate to reach the target production speed.

GLUELESS™ Absorbent Core concept design