



D4.3 Report on the production of Multimaterial and multi-layered products for packaging

WP4 - Demo Case B. Creation of innovative formats and testing materials that improve recyclability and the end-of-life scenario.

CIRC-PACK - Towards circular economy in the plastic packaging value chain

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PUBLISHABLE SUMMARY

The work published in this report is focused on the activities about the production of multilayer and multimaterial products in the CIRC-PACK project.

Different materials have been studied during the execution of the project to perform a final laminate and a film able to fulfil all the different aspects required for its acceptance into the market. Besides, the materials chosen for the production of the multilayer material had to fulfil the industrial requirements that were given by SADA. In the frame of the industrialization of the process different challenges were faced due to the incompatibility of some materials and the impossibility to seal properly the tray with the film. However, finally the CIRC-PACK partners involved in the activity were capable of finding available options that would be applicable at industrial level and fulfil all the industrial requirements. The final mentioned material is a cellulose film capable of sealing the trays, already developed in the project.

The deliverable also summarizes the work performed by BUMAGA for the fabrication of a laminated board with material requirements demanded by SAPONIA. In this case, the study has been able to go one step further than for the film. It has been possible to evaluate the material developed by real consumers.

In the acceptance test of the material by consumers, it has been observed that there are different types of clients. Some of them with a very good acceptance of the new product and even some group that was willing to buy it regardless of the price.