RecyClass

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Borealis GmbH

RECYCLASS TECHNOLOGY APPROVAL

Brussels, 10 April 2026

DISCLAIMER

RecyClass recognition applies only to Borealis GmbH 'Foamed injection moulded PP rigid packaging made from Borealis Daploy™ PP solution' using Bockatech EcoCore® foamtech technology reported in Annex I. The recyclability assessment therefore does not refer to the testing of a specific packaging using this foamed PP solution. Any specific packaging using this foamed PP solution would need to be assessed individually to demonstrate that the system of resin, adjuvants, label, closure, and printing conforms to the RecyClass Design for Recycling Guidelines or Recyclability Evaluation Protocol for PP containers, and that it is sorted in the PP rigid stream at the state-of-art sorting plants in Europe.
Publication of results of testing of this technology MUST clearly include all the conditions listed in the approval letter. Partial reporting of the conditions is forbidden.
Additionally, any change in the formulation of the technology must be communicated to the Technical Committee which will reassess the approval of the technology.

The RecyClass PP Technical Committee was requested to carry out an assessment of the technology 'Foamed injection moulded PP rigid packaging made from Borealis Daploy™ PP solution' using Bockatech EcoCore® foamtech technology by Borealis GmbHto verify its impact on the quality of recycled PP containers.

The technology is a foamed injected PP rigid packaging, more specifically a cup. The tested structure contains 4 wt% of a liquid masterbatch, containing 2 wt% of active chemical blowing agent (CBA) compared to the total weight of the cup.

According to the results that were obtained from the laboratory tests done by Proplast, carried out as per the Recyclability Evaluation Protocol for PP containers (version 6.0), 'Foamed injection moulded PP rigid packaging made from Borealis Daploy™ PP solution' technology is fully compatible with PP recycling.

Based on these results, RecyClass acknowledges that Borealis GmbH 'Foamed injection moulded PP rigid packaging made together with Borealis Daploy™ PP solution' technology will have no impact on the current European PP containers recycling and provided that the full packaging is designed under the following conditions:

a) The container is made of Borealis Daploy™ PP solution;
b) The density of the final rigid packaging is lower than 1 g/cm^3;
c) The active CBA represents 2 wt% of the total weight of the packaging, or less;

d) Any additional component or features (e.g., inks, adhesives, etc.) of the packaging must be compliant with the corresponding RecyClass Design for Recycling Guidelines[1].

RecyClass concludes 'Foamed injection moulded PP rigid packaging made from Borealis Daploy™ PP solution' technology as per current market conditions and knowledge, is fully compatible with the existing European industrial recycling processes for PP containers. Indeed, the recycled plastic generated after the recycling process was successfully tested in injection moulding applications up to 100 % innovation[2].

In regard to RecyClass Recyclability Certification, the present full compatibility with PP containers recycling delivered to Borealis GmbH, 'Foamed injection moulded PP rigid packaging made from Borealis Daploy™ PP solution' technology , means that a packaging containing this technology, as mentioned in the aforementioned conditions will not be penalised with any recyclability class deduction. Nevertheless, the amount of recyclable PP will impact the final recyclability class obtained during Recyclability Certification and should be kept above 95 % or 80 % in the final packaging to maximise chances to get a Recyclability Certificate with a Class A or B, respectively[3]. Also, it is noteworthy that the presence of additional packaging features, like label, adhesive, or barrier material, could impact the certification process.

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[1] Design for Recycling Guidelines - RecyClass

[2] Recyclability Evaluation Protocol for PP containers

[3] RecyClass Recyclability Certification

Annex I

Figure 1. 'Foamed injection moulded PP rigid cup made from Borealis Daploy™ PP solution' using Bockatech EcoCore® foamtech technology by Borealis GmbH.

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