RecyClass

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Frimpeks

RECYCLASS TECHNOLOGY APPROVAL

Brussels, 16 January 2026

DISCLAIMER

RecyClass recognition applies only to Frimpeks 'Frimpeks Flexys SF 601A/6181B' technology reported in Annex I. The recyclability assessment therefore does not refer to the testing of a specific packaging using this laminating adhesive. Any specific packaging using this laminating adhesive 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 films, and that it is sorted in the PP flexible 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 PO films Technical Committee was requested to carry out an assessment of the technology 'Frimpeks Flexys SF 601A/6181B' by Frimpeks to verify its impact on the quality of recycled PP flexible packaging.

The technology is a solvent-free aromatic polyurethane laminating adhesive that was used to produce a BOPP//BOPP laminate. The tested structure consisted in an BOPP/laminating adhesive/BOPP film with the 'Frimpeks Flexys SF 601A/6181B' as a laminated layer, and representing 4.6 wt% of the total weight of the film. The film has been tested unprinted.

According to the results that were obtained from the laboratory test performed by Aimplas, carried out as per the Recyclability Evaluation Protocol for Laminating Adhesives applied on PP films (version 1.0), the 'Frimpeks Flexys SF 601A/6181B' technology is considered to be fully compatible with PP flexibles recycling.

Based on these results, RecyClass acknowledges that Frimpeks 'Frimpeks Flexys SF 601A/6181B' technology will have no negative impact on the current European PP flexibles recycling provided that PP flexible films using this technology are designed only under the following conditions[1]:

a) The density of the PP film is below 0.97 g/cm^3:
b) The solvent-free aromatic polyurethane laminating adhesive 'Frimpeks Flexys SF 601A/6181B' represents 4.6 wt% of the total weight of the film, or less;

[1] **PP films designed under conditions other than those indicated need to be tested to assess their compliance with Recyclass Recyclability Evaluation Protocol for PP films.**

c) Any components or attachments to the packaging should be preferably made of clear PP;

d) Any additional component or features (inks, adhesives, …) of the packaging must be compliant with the corresponding RecyClass Design for Recycling Guidelines[2].

RecyClass concludes that Frimpeks laminating adhesive 'Frimpeks Flexys SF 601A/6181B' technology as per current market conditions and knowledge, is fully compatible with the existing European industrial recycling processes for PP flexibles. The plastic generated by the recycling process may be used in high quality applications such as PP cast films up to 25 %[3].

In regard to RecyClass Recyclability Certification, the present full compatibility with PP flexibles recycling delivered to 'Frimpeks Flexys SF 601A/6181B' technology, means that a package based on PP film containing this technology, as mentioned in the aforementioned conditions, will not be penalised with a recyclability class downgrade. 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[4]. Also, it is noteworthy that the presence of additional packaging features, like inks or barrier material, could additionally impact the certification process.

About RecyClass

RecyClass is a non-profit, cross-industry initiative advancing recyclability, bringing transparency to the origin of plastic waste, and establishing a harmonised approach toward recycled plastic calculation & traceability in Europe. RecyClass develops Recyclability Evaluation Protocols and scientific testing methods for innovative plastic materials which serve as the base for the Design for Recycling Guidelines and the RecyClass Online Tool. RecyClass established Recyclability Certifications for plastic packaging, Sorting Process, Recycling Process, and Recycled Plastics Traceability Certifications for plastic products.
RecyClass – Plastic Future is Circular

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[2] Design for Recycling Guidelines - RecyClass

[3] Technology tested according to the RecyClass Recyclability Evaluation Protocol for Laminating Adhesives applied on PP films

[4] RecyClass Recyclability Certification

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Annex I

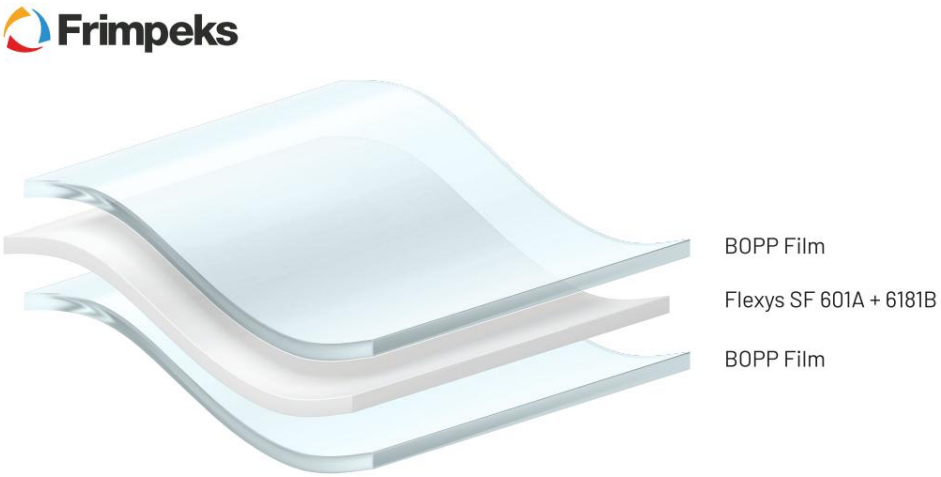

Figure 1. 'Frimpeks Flexys SF 601A/6181B' *technology by Frimpeks used as laminating adhesive.*