

Morchem

RECYCLASS TECHNOLOGY APPROVAL

Brussels, 7 November 2025

## DISCLAIMER

*RecyClass recognition applies only to Morchem 'Morchem PL 2727 AR + CF-740 R' 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 tested individually to demonstrate that the system of resin, adjuvants, label, closure, and printing conforms to the RecyClass 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 'Morchem PL 2727 AR + CF-740 R' by Morchem to verify its impact on the quality of recycled PP flexible packaging.

The technology is a two component solvent-free aromatic polyurethane laminating adhesive that was used to produce a OPP//OPP laminate. The tested structure consisted in an OPP/laminating adhesives/OPP film with the 'Morchem PL 2727 AR + CF-740 R' as a laminated layer, and representing 4 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 'Morchem PL 2727 AR + CF-740 R' technology is considered to be fully compatible with coloured PP flexibles recycling and limited compatible with natural PP flexibles recycling.

Based on these results, RecyClass acknowledges that Morchem 'Morchem PL 2727 AR + CF-740 R' technology will have no negative impact on the current European coloured PP flexibles recycling and a limited impact on the current European natural PP flexibles recycling provided that PP flexible films using this technology are designed only under the following conditions<sup>1</sup>:

- a) The density of the PP film is below 0.97 g/cm<sup>3</sup>:

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<sup>1</sup> PP films designed under conditions other than those indicated need to be tested to assess their compliance with Recyclclass Recyclability Evaluation Protocol for PP films.

- b) The two component solvent-free aromatic polyurethane laminating adhesive 'Morchem PL 2727 AR + CF-740 R' represents 4 wt% of the total weight of the film, or less;
- 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<sup>2</sup>.

RecyClass concludes that Morchem laminating adhesive 'Morchem PL 2727 AR + CF-740 R' technology as per current market conditions and knowledge, is respectively fully and limited compatible with the existing European industrial recycling processes for coloured and natural PP flexibles. The plastic generated by the recycling process may be used in high quality applications such as PP cast films up to 25 %<sup>3</sup>.

In regard to RecyClass Recyclability Certification, the present full compatibility with coloured PP flexibles recycling delivered to 'Morchem PL 2727 AR + CF-740 R' technology, means that a coloured 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<sup>4</sup>. 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 harmonized approach toward recycled plastic calculation & traceability in Europe. RecyClass develops Recyclability Evaluation Protocols and scientific testing methods for innovative plastic packaging materials which serve as the base for the Design for Recycling Guidelines and the RecyClass Online Tool. RecyClass established Recyclability Certifications for plastic packaging, Recycling Process Certification and Recycled Plastics Traceability Certification for plastic products.

#### RecyClass – Plastic Future is Circular

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Contact : [carolane.gerbehaye@plasticsrecyclers.eu](mailto:carolane.gerbehaye@plasticsrecyclers.eu), [www.recyclass.eu](http://www.recyclass.eu)

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<sup>2</sup> [Design for Recycling Guidelines - RecyClass](#)

<sup>3</sup> Technology tested according to the RecyClass [Recyclability Evaluation Protocol for Laminating Adhesives applied on PP films](#)

<sup>4</sup> [RecyClass Recyclability Certification](#)

## Annex I

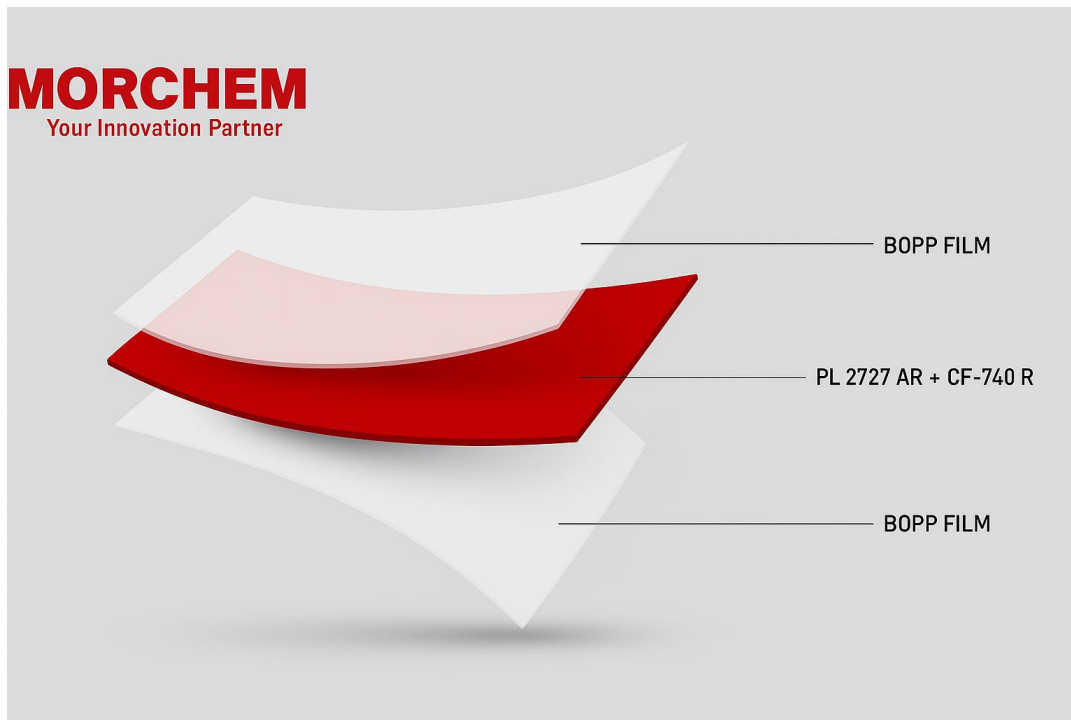


Figure 1. 'Morchem PL 2727 AR + CF-740 R' technology by Morchem used as laminating adhesive.