

Henkel

RECYCLASS TECHNOLOGY APPROVAL

Brussels, 26 March 2026

## DISCLAIMER

*RecyClass recognition applies only to Henkel 'Loctite Liofol LA 7780 RE/LA 6147 RE' 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 Design for Recycling Guidelines or Recyclability Evaluation Protocol for PE films, and that it is sorted in the PE 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 'Loctite Liofol LA 7780 RE/LA 6147 RE' by Henkel to verify its impact on the quality of recycled PE flexible packaging.

The technology is a solvent free aromatic polyurethane laminating adhesive that was used to produce a LDPE//LDPE laminate. The tested structure consisted in an LDPE/laminating adhesive/LDPE film with the 'Loctite Liofol LA 7780 RE/LA 6147 RE' as a laminated layer, and representing 2.6 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 Proplast, carried out as per the Recyclability Evaluation Protocol for PE films (version 6.0), the 'Loctite Liofol LA 7780 RE/LA 6147 RE' technology is considered to be **fully compatible with PE flexibles recycling**.

Based on these results, RecyClass acknowledges that Henkel 'Loctite Liofol LA 7780 RE/LA 6147 RE' technology will have no negative impact on the current European PE flexibles recycling provided that PE flexible films using this technology are designed only under the following conditions<sup>1</sup>:

- a) The density of the PE film is below 0.97 g/cm<sup>3</sup>;
- b) The solvent-free aromatic polyurethane laminating adhesive 'Loctite Liofol LA 7780 RE/LA 6147 RE' represents 2.6 wt% of the total weight of the film, or less;
- c) Any components or attachments to the packaging should be preferably made of clear PE;

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

- 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 Henkel laminating adhesive 'Loctite Liofol LA 7780 RE/LA 6147 RE' technology as per current market conditions and knowledge, is fully compatible with the existing European industrial recycling processes for PE flexibles. The plastic generated by the recycling process may be used in high quality applications such as PE blown films up to 25 %<sup>3</sup>.

In regard to RecyClass Recyclability Certification, the present full compatibility with PE flexibles recycling delivered to 'Loctite Liofol LA 7780 RE/LA 6147 RE' technology, means that a packaging based on a PE film containing this technology, as mentioned in the aforementioned conditions, will not be penalised with a recyclability class downgrade. Nevertheless, the amount of recyclable PE 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 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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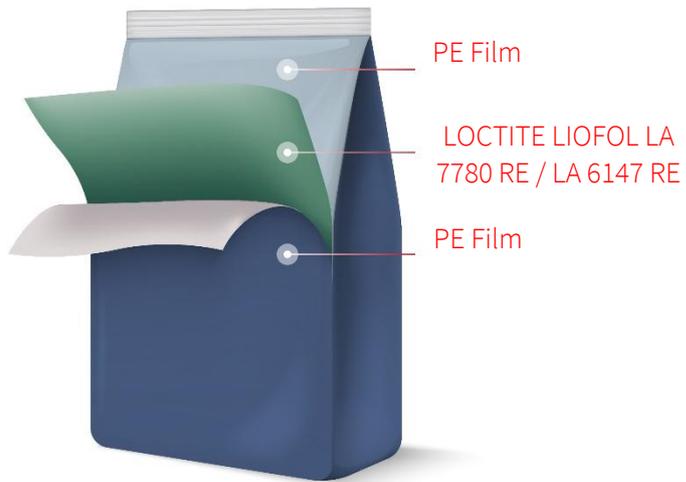
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<sup>2</sup> [Design for Recycling Guidelines - RecyClass](#)

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

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

## Annex I



*Figure 1. 'Loctite Liofol LA 7780 RE/LA 6147 RE' technology by Henkel used as laminating adhesive.*