

Elix Polymers

Brussels, 13 November 2025

RECYCLASS AUTOMOTIVE & ELECTRICAL AND ELECTRONIC EQUIPMENT TECHNOLOGY APPROVAL - RESIN

DISCLAIMER

RecyClass recognition applies only to Elix Polymers “ELIX ABS HH 3110” resin reported in Annex I. The recyclability assessment therefore does not refer to the testing of a specific product using this resin.

Publication of results of testing of this resin 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 resin must be communicated to the RecyClass Technical Committee which will reassess the approval of the resin.

The RecyClass A&EEE Technical Committee was requested to carry out an assessment of the resin “ELIX ABS HH 3110” by Elix Polymers, to verify its compatibility with the processing conditions of the Acrylonitrile Butadiene Styrene (ABS) Automotive and Electrical and Electronic Equipment (A&EEE) stream and its suitability as reference material for the RecyClass protocols involving ABS parts.

The material is a natural ABS resin modified with poly(styrene-co-maleimide). The resin exhibits high heat resistance.

According to the results that were obtained from the laboratory tests done by Proplast, carried out as per the Recyclability Evaluation Protocol for A&EEE Resins (version 1.0), “ELIX ABS HH 3110” resin is **fully compatible with the ABS recycling stream.**

Based on these results, RecyClass acknowledges that Elix Polymers “ELIX ABS HH 3110” resin will have no impact on the current European A&EEE recycling, provided the following conditions¹:

- a) The Melt Flow Index is between 5 and 15 g/10 min (220 °C/10 kg)
- b) The density is between 1 and 1.09 g/cm³.
- c) Any additional component of the resin must be compliant with the corresponding RecyClass Design for Recycling Guidelines².

¹ Resins designed under conditions other than those indicated need to be tested to assess their compliance with the RecyClass Recyclability Evaluation Protocol for A&EEE Resins.

² Under development.

RecyClass concludes that Elix Polymers “ELIX ABS HH 3110” resin as per current knowledge, is fully compatible with the existing European industrial recycling processes for ABS plastics used in A&EEE applications.

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, Recycling Process Certification, and Recycled Plastics Traceability Certification for plastic products.

[RecyClass – Plastic Future is Circular](#)

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Contact : augusto.bruno@plasticsrecyclers.eu, www.recyclclass.eu

Annex I



Figure 1. Extruded “ELIX ABS HH 3110” resin by Elix Polymers. 1st and 2nd extrusion (left to right) performed by Proplast.



Figure 2. “ELIX ABS HH 3110” resin by Elix Polymers in different colours.