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Dow

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RECYCLASS AUTOMOTIVE & ELECTRICAL AND ELECTRONIC EQUIPMENT TECHNOLOGY APPROVAL – ABS SINGLE COMPONENT

DISCLAIMER

RecyClass recognition applies only to Dow "ELVALOY™ AC 1330" technology reported in Annex I. The recyclability assessment therefore does not refer to the testing of a specific product using this technology.

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 resin must be communicated to the RecyClass Technical Committee which will reassess the approval of the technology.

The RecyClass A&EEE Technical Committee was requested to carry out an assessment of the technology ***"ELVALOY™ AC 1330"*** by Dow, to verify its compatibility with the Acrylonitrile Butadiene Styrene (ABS) Automotive and Electrical and Electronic Equipment (A&EEE) recycling stream.

The ELVALOY™ AC 1330 material is a copolymer of ethylene and methyl acrylate, with a 30 % by weight Methyl Acrylate comonomer content. It is compounded in 10 wt% with a natural ABS resin.

According to the results that were obtained from the laboratory tests done by AIMPLAS, carried out as per the Recyclability Evaluation Protocol for ABS Plastic Components (version 1.0), "ELVALOY™ AC 1330" technology is fully compatible with the ABS recycling stream.

Based on these results, RecyClass acknowledges that Dow "ELVALOY™ AC 1330" technology will have no impact on the current European ABS recycling for A&EEE, provided the following conditions[1]:

a) The amount of ELVALOY™ AC 1330 in the ABS compound is equal or lower than 10 wt%.
b) The comonomer content in ELVALOY™ AC 1330 is equal or lower than 30 wt%.
c) The density of the compound is between 1 and 1.09 g/cm^3.
d) Any additional component of the resin must be compliant with the corresponding RecyClass Design for Recycling Guidelines[2].

[1] Technologies designed under conditions other than those indicated need to be tested to assess their compliance with the Recyclability Evaluation Protocol for ABS plastic components.

[2] Under development.

RecyClass concludes that Dow "ELVALOY™ AC 1330" technology 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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Annex I

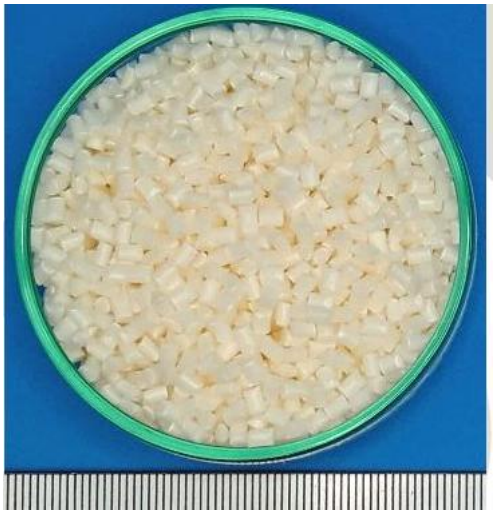

Figure 1. "ELVALOY™ AC 1330" by Dow, compounded with ABS.