IPACKCHEM 'Advanced In-Mould Fluorination' tested and approved by RecyClass

The findings of an independent laboratory testing show that IPACKCHEM's "Advanced In-Mould Fluorination" technology is fully compatible with both the natural and coloured high-density polyethylene (HDPE) containers recycling streams.

This innovative technology introduces carefully controlled levels of fluorine during the HDPE extrusion blowing process to create an impermeable fluorinated barrier on the inner surface of the container. The typical thickness of the deposited layer is between 100 and 200 nm. In-mould fluorination provides bi-directional barrier to substance migration and, since it is a continuous production process, ensures dimensional and visual consistency.

The tested technology is used for rigid packaging, mainly destined for crop protection, pharmaceutical, animal health, laboratory and flavours & fragrances and Speciality Fuels.

According to the testing results carried out by the Centre Technique Industriel de la Plasturgie et des Composites (IPC), performed as per the RecyClass Recyclability Evaluation Protocol for HDPE containers[1], this new technology conforms to the current European HDPE rigids recycling stream provided it is used under specific conditions[2].

These findings contribute positively toward the increased uptake of recyclability principles applied to HDPE packaging. They are a positive indication to the industry that functionality and design for recycling can be effectively combined to accelerate plastics circularity.

[1] RecyClass Recyclability Evaluation Protocol for HDPE containers

[2] IPACKCHEM Approval Letter

RecyClass Recyclability Approvals

RecyClass issues two types of Recyclability Approvals – Technology Approvals and Product Approvals. These are issued upon conducted testing in accordance with one of the established Recyclability Evaluation Protocols. Testing results are incorporated in the RecyClass Design for Recycling Guidelines and the Online Tool. The full list of approved Technologies and Products can be found on the RecyClass website.

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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About IPACKCHEM

Headquartered in Paris, France, IPACKCHEM is a leading global manufacturer of innovative rigid plastic packaging products (containers, bottles, jerrycans) for crop protection and other key market segments including pharmaceutical, animal health, laboratory and flavours & fragrances.

The Company's safe, secure and sustainable UN-approved packaging solutions enable users to safely transport and distribute "hard-to-hold" and hazardous chemicals while adhering to stringent regulations. IPACKCHEM currently operates through 11 production facilities, employs ~1,300 people and serves ~ 1,200 customers in 35 countries. IPACKCHEM carries an EcoVadis Platinum rating.

For more information, please visit www.ipackchem.com.