

Procter & Gamble

RECYCLASS TECHNOLOGY APPROVAL

Brussels, 19th August 2020

The RecyClass HDPE Technical Committee was requested to carry out an assessment of “Mr Propre Ultra Power” bottle without the trigger to verify its impact on the quality of recycled HDPE containers.

The innovative packaging is a HDPE bottle with a decorated full body shrink PET-g sleeve for a multi-purposes cleaner.

According to the results that were obtained from the laboratory test by the Institut für Kunststofftechnologie und -recycling (IKTR), carried out as per the Recyclability Evaluation Protocol for HDPE containers, ‘Mr Propre Ultra Power’ bottle without the trigger is considered to be fully compatible with HDPE recycling. Also the sortability of the packaging has been successfully tested by Suez.Circpack® following the RecyClass sorting protocol.

Based on these results, RecyClass certifies that Procter & Gamble full body sleeve bottle “Mr Propre Ultra Power” will not have a negative impact on the current European HDPE containers recycling provided that the full packaging using this bottle as body is designed under the following conditions:

- a) The body is made of clear/natural HDPE;
- b) No functional barriers are included in the body (i.e. EVOH, PA, PVDC);
- c) The density of the finished bottle is lower than 1g/cm³;
- d) The sleeve is made of PET-g, applied without any adhesive and made by thickness and colour don't hindering the HDPE bottle to be detected by NIR devices;
- e) The closure system is preferentially made of PE, or made of a combination of PE and PP;
- f) The inks are not bleeding and comply with the European Legislation (e.g. Packaging and Packaging Waste Directive on the heavy metal concentration levels);

RecyClass concludes that Procter & Gamble ‘Mr Propre Ultra Power’ bottle as per current market conditions and knowledge, is fully compatible with the existing European industrial recycling processes for HDPE containers. The plastic generated by the recycling process may be used in high quality applications such as HDPE bottles.

RecyClass recognition applies only to Procter & Gamble ‘Mr Propre Ultra Power’ bottle reported in Annex I and not to any specific bottle as each packaging would need to be tested individually to demonstrate the system of resin, adjuvants, label, and closure are conformed to the RecyClass

Recyclability Evaluation Protocol for HDPE containers. However, similar executions with the only modification of artworks would not have to be tested again as long as the sleeve thickness and the ink coverage remain the same.

Any change on the formulation of the product must be communicated to the Technical Committee which will reassess the approval of the technology.

About

RecyClass is a comprehensive cross-industry initiative that works to advance plastic packaging recyclability within Europe. RecyClass assesses recyclability and provides specific recommendations on how to improve packaging design to fit current recycling technologies. Activities within RecyClass include the development of Recyclability Evaluation Protocols and testing of innovative materials. Findings are used to update the RecyClass Design for Recycling guidelines and the online free tool.

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Annex I



Figure 1 'Mr Propre Ultra Power' full sleeved bottle by Procter & Gamble