

Procter & Gamble

RECYCLASS PRODUCT APPROVAL

Brussels, 19 August 2020

Reviewed: Brussels, 17 July 2023

DISCLAIMER

RecyClass recognition applies only to Procter & Gamble 'Mr Propre/Viakal/Flash/Fairy Spray' product reported in Annex I. The recyclability assessment therefore does not refer to the testing of a specific artwork or size of this packaging. Any changes in the formulation of this packaging, not falling under the scope of this approval letter, would need to be tested individually to demonstrate that the system of resin, adjuvants, label, closure, and printing conforms to the RecyClass Recyclability Evaluation Protocol for HDPE containers, and that it is sorted in the HDPE rigid stream at the state-of-art sorting plants in Europe. Publication of results of testing of this product 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 product must be communicated to the Technical Committee which will reassess the approval of the product.

The RecyClass HDPE Technical Committee was requested to carry out an assessment of the product 'Mr Propre/Viakal/Flash/Fairy Spray' fully sleeved bottle with trigger by Procter & Gamble to verify its impact on the quality of recycled HDPE containers.

The innovative packaging is a HDPE bottle with a decorated full body PET-g sleeve for a multi-purposes cleaner and it is provided with a trigger made of 90 % PP and 10 % PE.

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 containers¹, 'Mr Propre/Viakal/Flash/Fairy Spray' with this specific trigger is considered to be **limited compatible with HDPE recycling**. Also the sortability of the packaging has been successfully tested by Suez.Circpack[®] following the RecyClass sorting protocol².

Based on these results, RecyClass acknowledges that Procter & Gamble 'Mr Propre/Viakal/Flash/Fairy Spray' full body sleeve bottle with trigger will not have a negative impact on the current European HDPE containers recycling provided the full packaging using this bottle as body is designed under the following conditions:

- a) The body is made of clear/natural or white HDPE;

¹ [RecyClass Recyclability Evaluation Protocol for HDPE Containers](#)

² [RecyClass Sorting Evaluation Protocol for Plastic Packaging](#)

- 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 represents less than 6.2 % of the total weight of the packaging and is made from PET-G, applied without any adhesive and its thickness and colour don't hinder the HDPE bottle to be detected by NIR devices;
- e) The PP concentration doesn't exceed 38 % of the total weight of the full packaging;
- f) The PE/PP trigger, tested successfully without any additional component, is preferentially colorless or light coloured;
- g) Applied printing technology is compatible with recycling; since several printing options are possible, it is the responsibility of the end-user to choose an appropriate combination of inks and printing process to ensure that:
 - i. the inks are non-bleeding;
 - ii. the inks comply with the European Legislation (e.g. Packaging and Packaging Waste Directive on the heavy metal concentration levels) and are EUPIA compliant;
 - iii. direct printing is limited as much as possible (see Annex

RecyClass concludes that Procter & Gamble 'Mr Propre/Viakal/Flash/Fairy Spray' bottle with trigger product as per current market conditions and knowledge, is limited compatible with the existing European industrial recycling processes for HDPE containers. Indeed, the recycled plastic generated after the recycling process was successfully tested in high-value application such as HDPE bottles up to 25% concentration. According to the RecyClass Recyclability Methodology³ developed by RecyClass, 'Mr Propre/Viakal/Flash/Fairy Spray' corresponds to a class ranking C. However, this letter is not a certification and does not allow the use of the class ranking logo. Therefore, Procter & Gamble is invited to contact one of the recognized Certification Bodies to get 'Mr Propre/Viakal/Flash/Fairy Spray' product certified.

Outside of above conditions, the package may not allow to reach high recycling quality standards and will be assessed with a lower rating than C class by the RecyClass recyclability Methodology. RecyClass recommends to reduce the concentration of PP in the trigger to further improve recycling and make 'Mr Propre/Viakal/Flash/Fairy Spray' bottles fully compatible.

³ [Recyclability Methodology of RecyClass](#)

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

Similar executions of ‘Mr Propre/Viakal/Flash/Fairy Spray’ product with the only modification of artworks and/or modification of the packaging size would not have to be tested again as long as the proportion of the components, including inks, lacquer, adhesives, remains the same.

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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Annex I



Figure 1. 'Mr Proper/Viakal/Flash/Fairy Spray' full sleeved bottle by Procter & Gamble.