

**COMité**  
**Technique de**  
**Recyclage des**  
**Emballages**  
**Plastiques**

TECHNICAL ASSESSMENT VLP07\_01  
 CLOSURE SYSTEM

**REQUESTED BY: SEAQUIST CLOSURES Europe**

- *Date of request* : July 15<sup>th</sup>, 2008

**DESCRIPTION OF CLOSURE SYSTEM:**

- *Trade Mark* : SimpliSqueeze® Beverage Valve
- Silicone valve, having a density of less than 1, for use in sports caps
- *Application* : PET bottles and containers

**MARKET**

- Beverage

**TECHNICAL ASSESSMENT**

The closure behaviour was analyzed in the PET stream

The behaviour of sports closures with the SimpliSqueeze® beverage valve was studied during recyclability tests on a pilot line representative of lines used by PET industrial recyclers in Europe. These tests were carried out according to procedure P 16.01.2007.

The recyclability tests demonstrated that the valves were easily separated during the float stage. Indeed, during this stage, the valves with a density of less than 1 float and are therefore separated from the PET stream (whose density is greater than 1). Hence, the quality of the product (flakes or granules of recycled PET) highly sensitive to the presence of silicone, is preserved.

Nevertheless, the presence of silicone could alter the quality of by-products from the float stage (small stream composed of caps and labels in Polyolefins), in the event the silicone should be in too high a proportion.


This phenomenon could be studied in further trials, if this type of sports closure were to become more common in France.

N.B. in the present case, the valve represents less than 3% of the weight of the cap.

In view of these elements, the COTREP is favourable to the use of this type of closure, which, given the current state of equipment and techniques used and available in Europe, does not perturb the recyclability of household plastic waste in PET collected in France.

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Le COTREP.

  
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