



Brussels, 14<sup>th</sup> February 2014

The Technical Committee of the European PET Bottle Platform (EPBP) was requested to evaluate the effect of CCL Label GmbH's low density pressure sensitive labelling system (LD-PSL) on the quality of recycled PET. This system contains a transparent as well as an opaque label solution.

Both label solutions are based on a duplex laminate of LD-polyolefin films in conjunction with an acrylic based pressure sensitive adhesive.

CCL Label GmbH's low density pressure sensitive labelling system is specifically designed to be fully removable in one piece from the PET flakes by the hot washing solution during the PET recycle process; whereby the adhesive is completely removed together with the label substrate thereby ensuring no re-absorption on the clean PET flakes. This EPBP opinion is valid only where non bleeding inks are used<sup>1</sup> in conjunction with CCL Label GmbH's low density pressure sensitive labelling system.

Data supplied from tests carried out in accordance to the EPBP testing protocol<sup>2</sup> demonstrated no negative impact on the colour and properties of the resulting rPET.

Based on the assessment's outcome EPBP has awarded approval to CCL Label GmbH's low density pressure sensitive labelling system under the following conditions:

- The density of the printed LD-pressure sensitive label with adhesive is below 1 g/cm<sup>3</sup> (adhesive + label + ink)
- The inks:
  - are non-bleeding<sup>1</sup>;
  - have high chemical resistance;
  - have low migration;
  - comply with the European Legislation (e.g. Packaging and Packaging Waste Directive on the heavy metal concentration levels).
- A market penetration of up to 10%.

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<sup>1</sup> [http://www.plasticsrecycling.org/images/pdf/PET-Resins/Tests-for-PET-Innovators/apr\\_pet\\_bleeding\\_label\\_test.pdf](http://www.plasticsrecycling.org/images/pdf/PET-Resins/Tests-for-PET-Innovators/apr_pet_bleeding_label_test.pdf)

<sup>2</sup> February 2010