



Brussels, 27 July 2021

The Technical Committee of the European PET Bottle Platform (EPBP) was requested to assess the effect of SHAPE 360 bottle labelling solution from Taghleef Industries on the quality of recycled PET. The SHAPE360™ TDS film labelling solution is based on a heat shrinkable transparent transverse-oriented polyolefin film.

Based on the EPBP assessment's outcome and current market's knowledge in 2021, the European PET Bottle Platform (EPBP) concludes that Taghleef Industries SHAPE360™ TDS film bottle labelling solution will not have a negative impact on current European PET recycling provided it is used under the following conditions:

- (a) The presence of labels on PET bottles should not lead to errors in identification and separation by NIR and optical detectors currently used in plastic packaging waste sorting plants. For that reason, labels should not cover more than 70% of the bottle surface for PET bottles of 500 ml and above; and not more than 50% for PET bottles smaller than 500 ml.
- (b) The density of the printed sleeve (label + ink + coating when applied) is below 1 g/cm^3 , taking shrinking during label application, further shrinking after grinding due to hot caustic washing and batch to batch tolerances into consideration.
- (c) The inks:
 - a. Are non-bleeding;
 - b. Have high chemical resistance;
 - c. Have low migration
 - d. Comply with European Legislation (e.g. Packaging and Packaging Waste Directive on the heavy metal concentration levels).

The EPBP reserves the right to update and change the conditions of this technical opinion at any time, upon prior notice to Taghleef Industries, in accordance to the most recent technologies, assessments and experience.

The European PET Bottle Platform EPBP is a voluntary industry initiative that provides PET bottle design guidelines for recycling, evaluates PET bottle packaging solutions and technologies and facilitates understanding of the effects of new PET bottle innovations on recycling processes. The EPBP initiative fully supports the economic and environmental sustainability of the European PET value chain.