JRC Dataset

Beverage carton converting; Converting; converting mix, at plant; beverage carton (Location: EU-27)

Description:
The manufacture of transport packaging materials, such as typically cardboard or shrink foil required for delivery to the filler is excluded in the LCI dataset presented here. It should be noted that it might be appropriate to consider the production of these materials when conducting a LCA study on beverage cartons. It is recommended to contact ACE regarding the question if this LCI dataset on converting is applicable in a specific study context. It is recommended to contact the beverage carton producer regarding detailed material composition of the beverage carton under examination. Note: VOC emissions from process depend on the printing technology applied and could considerably differ from the average value given here for a specific site or beverage carton product. Note: Air emissions from on-site fuel use for a specific site depend on the actually applied flue gas cleaning technology. This technology could be different from the average technology underlying this dataset in case of a particular site or in a regional context with a particular legal framework. Area of beverage cartons have to be calculated into mass of raw materials needed by the user. (advice can be requested at ACE). This parameterised data set is a gate-to gate data set that lists the inputs and outputs directly connected to the converting of LDPE granulate, liquid packaging board and aluminium foil to beverage carton. Beverage Cartons vary widely in composition depending on filled product and required functionality. There is therefore no one average carton or carton composition. The converting process is however broadly similar for all cartons and the representative parameterised process is designed to allow users to enter the appropriate package specification i.e. how much liquid packaging board, aluminium foil and plastic resin is used in the particular package under study, as well as specify the appropriate electricity supply for the converting factory location. For guidance a typical one litre aseptic carton for milk might for example comprise 78.5% board, 16.5% PE and 5% aluminum foil; while a typical one litre chilled carton could be 82.5% liquid packaging board and 17.5% LDPE. For more specific guidance on package specification please contact ACE or the specific package material provider. This data set is intended for the use by LCA practitioners Technical Purpose: Beverage Cartons are used for the packaging of non-carbonated softdrinks, milk and other liquid dairy products and non-carbonated water. Geographical Representation: EU-27

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Related resources:
Data access
- Full ELCD Database
  Landing Page to download the full ELCD Database.

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