

Title (en)

METHOD FOR PRODUCING A THERMOFORMED PRODUCT, AND INSTALLATION AND MACHINE THEREFOR

Title (de)

VERFAHREN ZUM HERSTELLEN EINES THERMOFORM-PRODUKTS SOWIE ANLAGE UND MASCHINE HIERFÜR

Title (fr)

PROCÉDÉ DE FABRICATION D'UN PRODUIT THERMOFORMÉ ET INSTALLATION ET MACHINE À CET EFFET

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Application

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Abstract (en)

[origin: WO2016095892A1] The invention relates to a method for producing a thermoformed product and an installation and a machine therefor. Thermoforming is a known and proven method for hot forming thin-walled plastic containers. The invention proposes a method for producing a thermoformed product on a single machine with several stations and with different tools, specifically according to a first aspect of the invention, comprising the following steps: (a) melting and homogenizing plastic granules and providing the plastic melt at a preform station; (b) producing a preform at the preform station in a preform cavity, preferably by means of injection molding, injection stamping, compression molding; (c) transferring the preform by means of a transfer carrier to a thermoforming station at the same machine, the thermoforming station comprising a thermoforming tool having a thermoforming cavity; (d) preferably heating the preform during the transfer, in particular with a radiation heater; (e) thermoforming of the thermoformed product in the thermoforming cavity. Advantageously, the first aspect of the invention allows for producing the final thermoformed product directly from the plastic granules using only a single machine, and in particular without any waste, when the preform is dimensioned in such a way that it does not present any excess with respect to the final shape of the product to be produced.

IPC 8 full level

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See references of WO 2016095892A1

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