

Title (en)
METHOD FOR PRODUCING AN RPET PLASTIC MATERIAL FOR USE IN A THIN WALL INJECTION MOLDING PROCESS AND HOLLOW BODY PRODUCED IN THE THIN WALL INJECTION MOLDING PROCESS

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES RPET-KUNSTSTOFFMATERIALS ZUR VERWENDUNG IN EINEM DÜNNWAND-SPRITZGUSSVERFAHREN UND IM DÜNNWAND-SPRITZGUSSVERFAHREN HERGESTELLTER HOHLKÖRPER

Title (fr)
PROCÉDÉ DE PRODUCTION D'UN MATÉRIAU PLASTIQUE À BASE DE PET RECYCLÉ DESTINÉ À ÊTRE UTILISÉ DANS UN PROCÉDÉ DE MOULAGE PAR INJECTION À PAROI MINCE ET CORPS CREUX PRODUIT DANS LE PROCÉDÉ DE MOULAGE PAR INJECTION À PAROI MINCE

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Abstract (en)
[origin: WO2022167679A1] The invention relates to a method, in which a starting material for injection molding having a viscosity of between 0.50 and 0.7 dl/g is produced with the aid of Chain Breaker from a recycled post-consumer PET having a viscosity of between 0.72 and 0.86 dl/g to ASTM D4603 and a copolymer fraction of at most approximately 3%. In the method, the comminuted and dried PET material is melted and decontaminated to such a degree that it is suitable for applications in the food sector and the consumer goods sector. A Chain Breaker is added to the rPET material in the melt of the recycling extruder and/or preferably in the melt of the injection unit in order to reduce viscosity and to enrich the PET with copolymers.

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