

Title (en)

METHOD AND DEVICE FOR PRODUCING POLYESTER GRANULES AND/OR SHAPED PARTS WITH A LOW ACETALDEHYDE CONTENT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON POLYESTER-GRANULAT UND/ODER -FORMTEILEN MIT NIEDRIGEM ACETALDEHYD-GEHALT

Title (fr)

PROCEDE ET DISPOSITIF POUR PRODUIRE UN GRANULAT ET/ OU DES PIECES MOULEES EN POLYESTER A FAIBLE TENEUR EN ACETALDEHYDE

Publication

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Application

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Abstract (en)

[origin: WO2006060930A1] The invention relates to a method for producing polyester granules and/or shaped parts from a melt resulting from a polycondensation (1). The invention provides that, in order to obtain a low acetaldehyde content, the melt, in the discharge area (2) of the polycondensation and at a temperature between 270 and 285 °C, is kept in contact with a gas space under reduced pressure. With regard to the granules, a standard crystallization (5) and drying (6) with air serving as drying gas are sufficient within the scope of the inventive method. The shaped parts can be produced directly from the melt by using, for example, an injection molding machine (9). The inventive device carries out a polycondensation whose at least final stage is provided in the form of a disc reactor inside of which, while avoiding a formation of sediments to the greatest possible extent, the melt is directly conveyed from disc to disc by a combination of rotating discs and by static scrapers mounted on the periphery of the reactor. In the discharge area, the melt is conveyed by static scrapers directly into the discharge unit without the melt accumulating in this location.

IPC 8 full level

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