

Title (en)

PRODUCTION OF A POLYESTER HOLLOW BODY OR ITS PREFORM WITH A REDUCED ACETALDEHYDE CONTENT

Title (de)

HERSTELLUNG EINES POLYESTER-HOHLKÖRPERS ODER DESSEN PREFORMS MIT REDUZIERTEM ACETALDEHYDGEHALT

Title (fr)

REALISATION D'UNE CORPS CREUX EN POLYESTER OU DE SON EBAUCHE A TENEUR EN ACETALDEHYDE REDUITE

Publication

**EP 1572777 A1 20050914 (DE)**

Application

**EP 03750233 A 20031022**

Priority

- CH 0300686 W 20031022
- DE 10259694 A 20021218

Abstract (en)

[origin: WO2004055093A1] The invention relates to a method for producing a polyester hollow body or its preform with a reduced acetaldehyde content from a drop-shaped, globular or spherical polyester granulate with a granulate diameter of less than 2mm. Said method is characterised in that the molecular weight of the polyester in the production step of melt-phase polymerisation is set to an intrinsic viscosity (IV) value of 0.15 to 0.4dl/g, the melt is transferred to a drop-shaped, globular or spherical mould by drop-processing and subsequently solidifies, the molecular weight of the polyester in the production step of solid-phase polycondensation is increased to an IV value of greater than 0.65dl/g and the polyester material that has been treated in this manner is shaped by being introduced into shaping means, to form the hollow body or its preform. The shaping process can be carried out by injection moulding, sintering or extrusion blow moulding. The invention also relates to a polyester material for the production of a polyester hollow body or its preform with a reduced acetaldehyde content, in addition to a polyester hollow body or its preform with a reduced acetaldehyde content.

IPC 1-7

**C08G 63/80**

IPC 8 full level

**C08G 63/80** (2006.01)

CPC (source: EP US)

**C08G 63/80** (2013.01 - EP US); **Y10T 428/1397** (2015.01 - EP US)

Citation (search report)

See references of WO 2004055093A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2004055093 A1 20040701**; AU 2003269668 A1 20040709; BR 0316730 A 20051018; CN 1726245 A 20060125; DE 10259694 A1 20040701; EA 200500976 A1 20051229; EP 1572777 A1 20050914; MX PA05005822 A 20050829; US 2006147666 A1 20060706

DOCDB simple family (application)

**CH 0300686 W 20031022**; AU 2003269668 A 20031022; BR 0316730 A 20031022; CN 200380106137 A 20031022; DE 10259694 A 20021218; EA 200500976 A 20031022; EP 03750233 A 20031022; MX PA05005822 A 20031022; US 53745905 A 20051130