

Title (en)

A PROCESS FOR THE PREPARATION OF LOW-DENSITY ABS COMPOSITES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ABS-VERBUNDSTOFFEN MIT NIEDRIGER DICHT

Title (fr)

PROCÉDÉ POUR LA PRÉPARATION DE COMPOSITES D'ABS DE FAIBLE DENSITÉ

Publication

EP 4352160 A1 20240417 (EN)

Application

EP 22733002 A 20220608

Priority

- EP 21179042 A 20210611
- EP 2022065468 W 20220608

Abstract (en)

[origin: WO2022258648A1] A process for the preparation of low-density ABS composites Abstract A process for the preparation of a thermoplastic molding composition (TP) comprising components (A), (B), (C), (D) and, if present, (E): (A) 10 to 65 wt.-% ABS graft copolymer (A); (B) 30.5 to 80 wt.-% SAN copolymer (B); (C) 1.5 to 9.5 wt.-% copolymer (C) with epoxy, maleic anhydride and/or maleic imide functional group; (D) 3 to 29 wt.-% hollow glass microspheres (D); (E) 0 to 15 wt.-% additives and/or processing aids (E); comprises the following steps:15 (i) Premixing of 2-10 wt.-% component (A) with hollow glass microspheres (D); (ii) Mixing and melting of the remaining portion of component (A), components (B), (C) and, if present, (E), in the feeding section of an extruder, (iii) Addition of the pre-mixture obtained in step (i) to the melt obtained in step (ii) by a side-feeder in a zone of the extruder after the kneading section to obtain the thermoplastic molding composition (TP) by melt mixing.

IPC 8 full level

C08L 55/02 (2006.01); **C08C 1/065** (2006.01); **C08F 279/04** (2006.01); **C08J 3/22** (2006.01); **C08K 3/40** (2006.01); **C08K 7/28** (2006.01); **C08L 25/12** (2006.01)

CPC (source: EP)

C08C 1/065 (2013.01); **C08F 279/04** (2013.01); **C08J 3/201** (2013.01); **C08J 3/203** (2013.01); **C08L 25/12** (2013.01); **C08L 55/02** (2013.01); **C08J 2355/02** (2013.01); **C08J 2425/12** (2013.01)

C-Set (source: EP)

1. **C08F 279/04 + C08F 212/08 + C08F 220/44**
2. **C08L 25/12 + C08L 55/02 + C08L 25/12 + C08K 7/28**
3. **C08L 25/12 + C08L 55/02 + C08L 25/12 + C08K 3/40**
4. **C08L 55/02 + C08L 25/12 + C08L 25/12 + C08K 7/28**

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022258648 A1 20221215; CN 117813351 A 20240402; EP 4352160 A1 20240417

DOCDB simple family (application)

EP 2022065468 W 20220608; CN 202280055852 A 20220608; EP 22733002 A 20220608