

Title (en)

PROCESS FOR PRODUCING POLYMER FOAMS COMPRISING IMIDE GROUPS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON IMIDGRUPPEN ENTHALTENDEN POLYMERSCHÄUMEN

Title (fr)

PROCÉDÉ POUR LA PRÉPARATION DE MOUSSES POLYMÈRES CONTENANT DES GROUPES IMIDE

Publication

EP 3504254 A1 20190703 (DE)

Application

EP 17755161 A 20170818

Priority

- EP 16185843 A 20160826
- EP 2017070923 W 20170818

Abstract (en)

[origin: WO2018036921A1] The present invention relates to a process for producing a polymer foam comprising reacting components A to C in the presence of component D and optionally E or of an isocyanate-functional prepolymer of components A and B with component C in the presence of component D and optionally E, the total amount of which is 100 wt%, (A) 35 to 75 wt% of at least one polyisocyanate component A, wherein 10 to 100 wt% of component A is a condensation product comprising polyimide groups and obtained by condensing at least one polyisocyanate component with at least one polycarboxylic acid having at least 3 COOH groups per molecule or anhydride thereof, (B) 5 to 50 wt% of at least one polyol component B, (C) 1 to 10 wt% of water as component C, and (D) 0.01 to 3 wt% of at least one Lewis base component D, (E) 0 to 5 wt% of at least one foam stabilizer component E, wherein said reacting is effected to release carbon dioxide.

IPC 8 full level

C08G 18/48 (2006.01); **C08G 18/20** (2006.01); **C08G 18/30** (2006.01); **C08G 18/78** (2006.01); **C08G 101/00** (2006.01)

CPC (source: EP US)

C08G 18/2027 (2013.01 - EP US); **C08G 18/302** (2013.01 - EP US); **C08G 18/42** (2013.01 - US); **C08G 18/4825** (2013.01 - EP US); **C08G 18/7812** (2013.01 - EP US); **C08G 18/7881** (2013.01 - US); **C08J 9/0042** (2013.01 - US); **C08J 9/0061** (2013.01 - US); **C08J 9/08** (2013.01 - US); **C08J 9/125** (2013.01 - US); **C08G 2110/0025** (2021.01 - EP US); **C08G 2110/005** (2021.01 - EP US); **C08G 2110/0058** (2021.01 - US); **C08G 2110/0066** (2021.01 - US); **C08G 2110/0083** (2021.01 - EP US); **C08J 2203/02** (2013.01 - US); **C08J 2203/10** (2013.01 - US); **C08J 2205/10** (2013.01 - US); **C08J 2375/04** (2013.01 - US)

Citation (search report)

See references of WO 2018036921A1

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

DOCDB simple family (publication)

WO 2018036921 A1 20180301; CN 109642007 A 20190416; EP 3504254 A1 20190703; US 2019185611 A1 20190620

DOCDB simple family (application)

EP 2017070923 W 20170818; CN 201780052616 A 20170818; EP 17755161 A 20170818; US 201716328086 A 20170818