

Title (en)

BRANCHED HARD- AND SOFT-BLOCK COPOLYMERS

Title (de)

VERZWEIGTE HARTE UND WEICHE BLOCKCOPOLYMERE

Title (fr)

COPOLYMÈRES À BLOCS RIGIDES ET À BLOCS SOUPLES BRANCHÉS

Publication

EP 3938427 A1 20220119 (FR)

Application

EP 20726201 A 20200316

Priority

- FR 1902695 A 20190315
- FR 2020050545 W 20200316

Abstract (en)

[origin: WO2020188210A1] The invention concerns a branched hard- and soft-block copolymer, in which the branchings are provided by a polyol residue binding hard blocks of the copolymer, the polyol being a polyol comprising at least three hydroxyl groups, the copolymer having a weight average molar mass M_w greater than or equal to 80,000 g/mol, and in which the ratio of the weight average molar mass M_w of the copolymer to the number average molar mass M_n of the copolymer is greater than or equal to 2.2. The invention also concerns a method for manufacturing such a copolymer and a foam of such a copolymer, a method for manufacturing such a foam and articles manufactured from such a foam.

IPC 8 full level

C08G 81/00 (2006.01); **C08G 65/48** (2006.01); **C08G 69/40** (2006.01); **C08G 69/44** (2006.01); **C08G 69/48** (2006.01); **C08J 9/00** (2006.01)

CPC (source: EP KR US)

C08G 69/40 (2013.01 - EP KR); **C08G 69/44** (2013.01 - EP KR); **C08G 81/00** (2013.01 - EP KR US); **C08J 9/0061** (2013.01 - EP KR US); **C08J 9/125** (2013.01 - US); **C08G 65/333** (2013.01 - EP); **C08G 65/3332** (2013.01 - EP); **C08G 2110/0008** (2021.01 - US); **C08G 2110/0025** (2021.01 - US); **C08J 2203/10** (2013.01 - US); **C08J 2371/02** (2013.01 - EP US); **C08J 2377/00** (2013.01 - EP US)

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)

FR 3093725 A1 20200918; **FR 3093725 B1 20211001**; CN 113574095 A 20211029; CN 113574095 B 20231024; EP 3938427 A1 20220119; JP 2022525206 A 20220511; KR 20210141532 A 20211123; US 2022135746 A1 20220505; WO 2020188210 A1 20200924

DOCDB simple family (application)

FR 1902695 A 20190315; CN 202080021618 A 20200316; EP 20726201 A 20200316; FR 2020050545 W 20200316; JP 2021555485 A 20200316; KR 20217031307 A 20200316; US 202017434777 A 20200316