

Title (en)

POROUS ARTICLES FORMED FROM POLYPARAXYLYLENE AND PROCESSES FOR FORMING THE SAME

Title (de)

AUS POLYPARAXYLYLEN GEFORMTE PORÖSE ARTIKEL UND VERFAHREN ZUR FORMUNG DAVON

Title (fr)

ARTICLES POREUX FORMÉS À PARTIR DE POLY(PARA-XYLYLÈNE) ET PROCÉDÉS DE FORMATION DE CES DERNIERS

Publication

EP 3408316 A1 20181205 (EN)

Application

EP 17706599 A 20170123

Priority

- US 201615007319 A 20160127
- US 2017014490 W 20170123

Abstract (en)

[origin: WO2017132077A1] Polyparaxylylene (PPX) polymer films that can be expanded into porous articles that have a node and fibril microstructure are provided. The fibrils contain PPX polymer chains oriented with the fibril axis. The PPX polymer may contain one or more comonomer. PPX polymer articles may be formed by applying PPX to one or both sides of a substrate, such as by vapor deposition. The nominal thickness of the PPX polymer film(s) is less than about 50 microns. The PPX polymer film(s) may be removed from the substrate to form a free-standing PPX polymer film(s), which may then be stretched into a porous article.

IPC 8 full level

C08J 5/18 (2006.01); **B01D 67/00** (2006.01); **B01D 69/12** (2006.01); **B01D 71/28** (2006.01); **B01D 71/36** (2006.01); **B29C 55/12** (2006.01); **B29C 55/20** (2006.01); **B29D 7/01** (2006.01); **C08J 7/04** (2006.01); **C09D 165/04** (2006.01)

CPC (source: CN EP KR US)

B01D 67/0027 (2013.01 - EP KR); **B01D 69/1216** (2022.08 - CN EP KR US); **B01D 71/36** (2013.01 - KR); **B01D 71/72** (2013.01 - EP KR); **B29C 55/005** (2013.01 - EP KR); **B29C 55/023** (2013.01 - EP KR); **B29C 55/16** (2013.01 - EP KR); **B29C 67/20** (2013.01 - CN KR); **B29D 7/01** (2013.01 - EP KR); **C08G 61/02** (2013.01 - EP KR); **C08J 5/18** (2013.01 - EP KR US); **C08J 7/042** (2013.01 - CN KR); **C08J 7/0427** (2020.01 - CN EP KR); **C08J 9/228** (2013.01 - CN KR); **C08J 9/365** (2013.01 - CN KR); **C08L 65/04** (2013.01 - KR); **C09D 165/04** (2013.01 - EP KR); **B01D 71/36** (2013.01 - EP); **B29K 2105/041** (2013.01 - EP KR); **B29K 2865/00** (2013.01 - EP KR); **C08G 2261/3424** (2013.01 - EP KR); **C08J 2327/18** (2013.01 - CN EP KR); **C08J 2365/04** (2013.01 - EP KR); **C08J 2465/04** (2013.01 - CN EP KR)

Citation (search report)

See references of WO 2017132077A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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WO 2017132077 A1 20170803; AU 2017212317 A1 20180524; AU 2017212317 B2 20190815; CA 3005270 A1 20170803; CA 3005270 C 20210126; CN 108699263 A 20181023; CN 108699263 B 20210907; CN 112239556 A 20210119; CN 112239556 B 20221220; EP 3408316 A1 20181205; JP 2018538403 A 20181227; JP 6767487 B2 20201014; KR 102134982 B1 20200716; KR 20180104705 A 20180921

DOCDB simple family (application)

US 2017014490 W 20170123; AU 2017212317 A 20170123; CA 3005270 A 20170123; CN 201780008472 A 20170123; CN 202011032235 A 20170123; EP 17706599 A 20170123; JP 2018529604 A 20170123; KR 20187024211 A 20170123