Title (en)

THERMOPLASTIC POLYESTER HAVING IMPROVED RESISTANCE TO THE PHENOMENON OF CRACKING

Title (de)

THERMOPLASTISCHER POLYESTER MIT VERBESSERTER BESTÄNDIGKEIT GEGEN RISSBILDUNG

Title (fr)

POLYESTER THERMOPLASTIQUE PRÉSENTANT UNE RÉSISTANCE AMÉLIORÉE AU PHÉNOMÈNE DE FISSURATION

Publication

EP 3755736 A1 20201230 (FR)

Application

EP 19711963 A 20190219

Priority

- FR 1851391 A 20180219
- FR 2019050371 W 20190219

Abstract (en)

[origin: WO2019158885A1] The invention relates to the field of polymers, particularly a thermolastic polyester having an improved resistance to the cracking phenomenon, to the production method thereof, and to the use of same for producing plastic items. The thermoplastic polyester comprises at least one 1,4 : 3,6-dianhydrohexitol motif (A), at least one diol motif (B), other than the 1,4 : 3,6-dianhydrohexitol motif (A), at least one aromatic dicarboxylic acid motif (C) and at least one branching agent, and has a reduced viscosity in solution of a minimum of 0.75 dL/g and a maximum of 1.5 dL/g. Said thermoplastic polyester is advantageous in that it is particularly resistant to the phenomonon of cracking and also has improved esterification and polycondensation times during the production method thereof.

IPC 8 full level

C08G 63/672 (2006.01)

CPC (source: EP KR US)

C08G 63/181 (2013.01 - KR); **C08G 63/199** (2013.01 - KR); **C08G 63/672** (2013.01 - EP KR US); **C08G 63/80** (2013.01 - KR)

Citation (search report)

See references of WO 2019158885A1

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 2019158885 A1 20190822; CN 111712527 A 20200925; EP 3755736 A1 20201230; FR 3078069 A1 20190823; FR 3078069 B1 20200904; JP 2021514021 A 20210603; JP 7304356 B2 20230706; KR 20200123104 A 20201028; US 2021070930 A1 20210311

DOCDB simple family (application)

FR 2019050371 W 20190219; CN 201980012879 A 20190219; EP 19711963 A 20190219; FR 1851391 A 20180219; JP 2020543867 A 20190219; KR 20207022666 A 20190219; US 201916971073 A 20190219