

Title (en)

COPOLYAMIDE COMPOSITIONS COMPRISING REINFORCING FIBERS WITH HIGH MODULUS STABILITY AND USES THEREOF

Title (de)

COPOLYAMIDZUSAMMENSETZUNGEN MIT VERSTÄRKUNGSFASERN MIT HOHER DEHNGRENZENSTABILITÄT UND VERWENDUNGEN DAVON

Title (fr)

COMPOSITIONS DE COPOLYAMIDES COMPRENANT DES FIBRES DE RENFORTS PRESENTANT UNE STABILITE DE MODULE ELEVEE ET LEURS UTILISATIONS

Publication

**EP 3941969 A1 20220126 (FR)**

Application

**EP 20726195 A 20200313**

Priority

- FR 1902918 A 20190321
- FR 2020050539 W 20200313

Abstract (en)

[origin: WO2020188204A1] The present invention relates to the use of a copolyamide comprising at least two units of formula A/X 1 Y, wherein: A is a repeating unit obtained by polycondensation of at least one C 9 to C 18 , preferably C 10 to C 18 , more preferably C 10 to C 12 amino acid, or at least one C 9 to C 18 , preferably C 10 to C 18 , more preferably C 10 to C 12 lactam, or at least one C 4 -C 36 , preferably C 6 -C 18 , preferably C 6 -C 18 , more preferably C 10 -C 18 diamine Ca with at least one C 4 -C 36 , preferably C 6 -C 18 , preferably C 6 -C 18 , more preferably C 10 -C 18 diacid Cb; X 1 Y is a repeating unit obtained from the polycondensation of at least one C 4 to C 8 , preferably C 4 to C 6 , more preferably C 6 linear aliphatic diamine (X 1 ), and at least one aromatic dicarboxylic acid (Y), to prepare a composition comprising from 30 to 70% by weight of reinforcing fibers, relative to the total weight of the composition, and the modulus of which does not vary by more than 20% in the temperature range from 20°C to 40°C, in particular in the temperature range from 0°C to 40°C, more particularly in the temperature range from -10°C to 40°C. It also relates to a composition comprising such a copolyamide, a method for manufacturing the same, and molded articles obtainable therefrom.

IPC 8 full level

**C08G 69/26** (2006.01); **C08G 69/36** (2006.01); **C08L 77/06** (2006.01)

CPC (source: CN EP)

**C08G 69/26** (2013.01 - EP); **C08G 69/36** (2013.01 - EP); **C08K 5/098** (2013.01 - CN); **C08K 5/1345** (2013.01 - CN); **C08K 5/526** (2013.01 - CN); **C08K 7/14** (2013.01 - CN EP); **C08L 77/06** (2013.01 - EP); **C08K 7/06** (2013.01 - EP)

Citation (search report)

See references of WO 2020188204A1

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 2020188204 A1 20200924**; CN 113811575 A 20211217; EP 3941969 A1 20220126; FR 3094011 A1 20200925; FR 3094011 B1 20211001

DOCDB simple family (application)

**FR 2020050539 W 20200313**; CN 202080032810 A 20200313; EP 20726195 A 20200313; FR 1902918 A 20190321