

Title (en)
COPOLYAMIDE COMPOSITIONS COMPRISING REINFORCING FIBERS AND HAVING HIGH MODULUS STABILITY AND USES THEREOF

Title (de)
COPOLYAMID-ZUSAMMENSETZUNGEN MIT VERSTÄRKUNGSFASERN UND HOHEM MODUL UND DEREN VERWENDUNGEN

Title (fr)
COMPOSITIONS DE COPOLYAMIDES COMPRENANT DES FIBRES DE RENFORTS ET PRESENTANT UNE STABILITE DE MODULE ELEVEE ET LEURS UTILISATIONS

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Application
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Abstract (en)
[origin: WO2020188203A1] The present invention relates to the use of a copolyamide comprising at least two distinct units A and X 1 Y 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 12 , more preferably C 10 -C 12 diamine Ca, with at least one C 4 -C 36 , preferably C 6 -C 18 , preferably C 6 -C 12 , more preferably C 10 -C 12 dicarboxylic acid Cb; - X 1 Y is a repeating unit obtained from the polycondensation of at least one C 9 to C 18 , preferably C 10 to C 18 , more preferably C 10 to C 12 linear aliphatic diamine (X 1), and at least one aromatic dicarboxylic acid (Y), to prepare a composition comprising between 35 and 65%, and preferably between 50 and 65% by weight of reinforcing fibers, relative to the total weight of the composition, and for which the flexural modulus or tensile modulus, measured after an identical conditioning, 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.

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