

Title (en)
USE OF COPOLYAMIDES FOR MANUFACTURING COMPOSITIONS THAT REMAIN RIGID UNDER THE EFFECT OF TEMPERATURE

Title (de)
VERWENDUNG VON COPOLYAMIDEN ZUR HERSTELLUNG VON UNTER TEMPERATUREINWIRKUNG STARREN ZUSAMMENSETZUNGEN

Title (fr)
UTILISATION DE COPOLYAMIDES POUR LA FABRICATION DE COMPOSITIONS A RIGIDITE STABLE SOUS L'EFFET DE LA TEMPERATURE

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Application
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Abstract (en)
[origin: WO2020193482A1] The invention mainly relates to the use of a semi-crystalline copolyamide having the formula A/X1Y, where: A is a repeating unit obtained by polycondensation of - at least one C6- to C18-lactam, or - at least one C6- to C18-amino acid, or - at least one repeating unit XY obtained by polycondensation of at least one linear aliphatic C4- to C18-diamine (X) and at least one aliphatic C6- to C18-dicarboxylic acid (Y); and X1Y is a repeating unit obtained by polycondensation of at least one cycloaliphatic diamine (X1) and at least one aliphatic C6- to C18-dicarboxylic acid (Y), the mass ratio between comonomer A and comonomer X1Y ranging from 60/40 to 90/10, for preparing objects of which the tensile modulus, measured according to ISO 527, does not vary more than 20% in the temperature range from 20 °C to 40 °C. The invention further relates to a composition comprising 25 to 65% by weight of said semi-crystalline copolyamide, 35 to 75% by weight of reinforcements, 0 to 10% by weight of at least one impact modifier, 0 to 10% by weight of at least one viscosity modulating agent, 0 to 20% by weight of at least one filler, and 0 to 5% by weight of additives. The invention finally relates to a method for manufacturing said composition and to a molded object obtainable from said composition.

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