

Title (en)
THERMOPLASTIC COMPOSITE MATERIAL MADE OF A SEMI-CRYSTALLINE POLYAMIDE AND METHOD FOR MANUFACTURING SAME

Title (de)
THERMOPLASTISCHER VERBUNDSTOFF AUS SEMIKRISTALLINEM POLYAMID UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)
MATÉRIAU COMPOSITE THERMOPLASTIQUE A BASE DE POLYAMIDE SEMI-CRISTALLIN ET PROCÉDÉ DE FABRICATION

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Application
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Abstract (en)
[origin: WO2014064375A1] The invention relates to a composition for a thermoplastic composite material having a thermoplastic matrix made of a semi-crystalline polyamide having a specific composition that includes at least two amide units, A, 55-95 mol %, and B, 5-45 mol %. A corresponds to x.T, wherein x is a C9-C18 linear aliphatic diamine and B corresponds to x'.T, wherein x' can be B1): a specific branched x-dependent aliphatic diamine, B2): MXD or B3): a linear x-dependent aliphatic diamine, said polyamide having a glass transition temperature Tg of at least 90 °C and a melting point no higher than 280 °C. The invention also relates to a method for manufacturing said composite material, the semi-crystalline polyamide polymer, the use of the composition and of the polymer of the invention for parts made of composite material, as well as the material and the resulting composite part.

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Citation (search report)
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Citation (examination)
• US 3544526 A 19701201 - KIRKALDY DAVID
• EP 2746315 A1 20140625 - TORAY INDUSTRIES [JP]

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