

Title (en)
TERNARY POLYMER BLEND, IN PARTICULAR FOR PIPE EXTRUSION, THERMOPLASTIC PLASTICS PIPE MADE FROM SUCH A BLEND, AND USE THEREOF

Title (de)
TERNÄRES POLYMERBLEND, INSBESONDERE ZUR ROHREXTRUSION, THERMOPLASTISCHES KUNSTSTOFFROHR AUS EINEM DERARTIGEN BLEND SOWIE DESSEN VERWENDUNG

Title (fr)
MÉLANGE DE POLYMÈRES TERNAIRE, EN PARTICULIER POUR L'EXTRUSION DE TUYAUX, TUYAU EN MATIÈRE PLASTIQUE THERMOPLASTIQUE FABRIQUÉ À PARTIR D'UN TEL MÉLANGE ET SON UTILISATION

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Application
EP 20734687 A 20200622

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Abstract (en)
[origin: WO2021004764A1] The invention relates to a thermoplastic polyamide-polyolefin blend, in particular for the extrusion of pipes intended for conveying fluid, said blend at least containing a polyolefin, a polyamide and a compatibiliser. In order to achieve high media resistance, in particular with respect to cooling water and aqueous zinc chloride solutions, and to guarantee a good extrusion performance of the blend and make it possible to fit a plastics pipe produced from the blend on mandrels as pipe connector elements, all while optimising the ratio of requirement profile to manufacturing outlay, the invention provides for the polyolefin to be a polypropylene-based thermoplastic elastomer, which is present in a mass ratio to the polyamide in the range from 0.05 to 5.0, the compatibiliser content being in a range from 7.5 to 50 parts by mass, in relation to 100 parts of the mixture of the polypropylene-based thermoplastic elastomer and the polyamide, and the compatibiliser containing, as at least a first component, a partially neutralised ionomer which is a copolymer containing ethylene monomer and acrylic acid monomer units.

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