

Title (en)

THERMOPLASTIC POLYMER SYSTEMS MODIFIED BY COPOLYMERS WITH FUNCTIONALISED BLOCKS

Title (de)

DURCH COPOLYMERE MIT FUNKTIONALISIERTEN BLÖCKEN MODIFIZIERTE THERMOPLASTISCHE POLYMERSYSTEME

Title (fr)

COMPOSITIONS DE POLYMERES THERMOPLASTIQUES MODIFIES AU MOYEN DE COPOLYMERES A BLOCS ACRYLIQUES FONCTIONNALISES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2010037983A2] The present invention relates to thermoplastic polymers modified by copolymers with acrylic blocks functionalised by hydrophilic monomers. The invention relates to a polymer mixture that includes, as a host polymer, a thermoplastic material containing flexible polyether or polyester segments, and at least one copolymer with acrylic blocks dispersed in said host polymer and miscible with the latter, said block copolymer including at least one hydrophilic monomer. The thermoplastic materials modified according to the invention maintain very good transparency properties and further acquire new properties, in particular mechanical properties such as an improved mechanical resistance in the molten state during transformation operations characteristic of thermoplastic materials such as extrusion, blowing or calendering operations.

IPC 8 full level

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Citation (search report)

See references of WO 2010037983A2

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Designated extension state (EPC)

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