

Title (en)

FABRICATED ARTICLES PRODUCED FROM ALPHA-OLEFIN/VINYL OR VINYLIDENE AROMATIC AND/OR HINDERED ALIPHATIC OR CYCLOALIPHATIC VINYL OR VINYLIDENE INTERPOLYMER COMPOSITIONS

Title (de)

GEGENSTÄNDE HERGESTELLT AUS ZUSAMMENSETZUNGEN VON INTERPOLYMEREN AUF BASIS VON ALPHA-OLEFINISCHEN UND VINYL- ODER VINYLIDENAROMATISCHEN UND/ODER GEHINDERTEN ALIPHATISCHEN ODER CYCLOALIPHATISCHEN VINYLISCHEN ODER VINYLIDENISCHEN MONOMEREN

Title (fr)

ARTICLES FABRIQUES A PARTIR DE COMPOSITIONS INTERPOLYMERES D'ALPHA-OLEFINE/VINYLE OU DE VINYLIDENE AROMATIQUE ET/OU DE VINYLE OU DE VINYLIDENE ALIPHATIQUE OU CYCLOALIPHATIQUE ENCOMBRES STERIQUEMENT

Publication

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Application

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Abstract (en)

[origin: WO0027615A1] This invention is related to fabricated articles prepared from polymer compositions which comprise at least one substantially random interpolymer comprising polymer units derived from one or more alpha -olefin monomers with specific amounts of one or more vinyl or vinylidene aromatic monomers and/or sterically hindered aliphatic or cycloaliphatic vinyl or vinylidene monomers in combination with minor amounts of one or more thermoplastic polymers which are immiscible with the substantially random interpolymer component. The fabricated articles are prepared in a final melt processing step comprising a flow fabrication process which can be characterized by the shear field applied in the process. Following melt fabrication, the blend compositions exhibit a unique mixing behavior and final solid state structure such that, even at low concentrations of the immiscible thermoplastic polymer blend component, the resulting fabricated articles exhibit unexpected combinations of properties included, but not limited to, modulus, high temperature performance, chemical resistance and transparency. The fabricated articles of the invention covers films, tapes, sheets, fibers, foams, injection molded articles, injection/blow molded articles and extruded profiles.

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