

Title (en)
THREADS MADE OF POLYMER BLEND FIBERS OR FILAMENTS BASED ON POLYETHYLENE TEREPHTHALATE, POLYBUTYLENE TEREPHTHALATE, AND POLYTRIMETHYLENE TEREPHTHALATE, AND THE USE THEREOF

Title (de)
GARNE AUS POLYMERMISCHUNGSFASERN ODER -FILAMENTEN AUF DER BASIS VON POLYETHYLEN-, POLYBUTYLEN- UND POLYTRIMETHYLENTEREPHTHALAT SOWIE DEREN VERWENDUNG

Title (fr)
FILS A BASE DE FIBRES OU DE FILAMENTS DE MELANGES POLYMERES, A BASE DE POLYTEREPHTALATE D'ETHYLENE, DE BUTYLENE ET DE TRIMETHYLENE ET LEUR UTILISATION

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Application
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Abstract (en)
[origin: DE19944029A1] A mixture of polyethylene or polybutylene terephthalate with polytrimethylene terephthalate (PTT) is spun and drawn to produce yarns of breaking extensions of 15 - 35%. Unexpectedly low residual extension after one, five and ten loading cycles to 5% and 10% extension is defined by formulae involving the concentration of PTT. A mixture of polyethylene or polybutylene terephthalate with polytrimethylene terephthalate (PTT), especially with up to 90% of either component, is spun and drawn to produce yarns of breaking extensions of 15 - 35%. The unexpectedly low residual extension after one, five and ten loading cycles to 5% and 10% extension is defined by formulae involving the concentration of PTT. The values apply to untwisted yarn, yarns with producer twist and yarns with metric twist factors up to 130. Most of the effect is produced by PTT concentrations of about 10% with little further improvement beyond that value. A residual extension of less than 0.1% is obtained over a wide range of conditions.

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