

Title (en)
HIGHLY ORIENTED POLYOLEFIN FIBRE

Title (de)
HOCHORIENTIERTE POLYOLEFINFASER

Title (fr)
FIBRES DE POLYOLEFINE FORTEMENT ORIENTEES

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Application
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Abstract (en)
[origin: WO0024952A1] The invention relates to a highly oriented polyolefin fibre containing polyolefin with an intrinsic viscosity of at least 5 dl/g, which fibre has a tensile strength of at least 26 cN/dtex and a modulus of tension of at least 700 cN/dtex, a process for the preparation thereof and the use in ropes or anti-ballistic shaped articles. The invention also relates to improved ropes and anti-ballistic shaped articles. The highly oriented polyolefin fibre according to the invention has improved properties in applications such as, in particular, anti-ballistic shaped articles since the fibre contains 0.05 - 5 wt.% of a solvent for the polyolefin (relative to the total fibre weight).

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WO 0024952 A1 20000504; AU 2748999 A 20000515; CA 2348518 A1 20000504; CA 2348518 C 20070703; CN 1122124 C 20030924; CN 1332812 A 20020123; DE 69904361 D1 20030116; DE 69904361 T2 20031030; DE 69904361 T3 20070118; EP 1137828 A1 20011004; EP 1137828 B1 20021204; EP 1137828 B2 20051123; EP 1256641 A2 20021113; EP 1256641 A3 20030326; ES 2189394 T3 20030701; ES 2189394 T5 20060501; HK 1042121 A1 20020802; HK 1042121 B 20040625; IL 142789 A 20060410; IL 172893 A 20080320; NL 1010413 C1 20000501; TW 444074 B 20010701

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