

Title (en)

MONOFILAMENT AND BRISTLES FROM ACRYLONITRILE HOMO OR COPOLYMERS AND PROCESS FOR MANUFACTURING THEM

Publication

EP 0154217 B1 19890920 (DE)

Application

EP 85101521 A 19850213

Priority

DE 3406910 A 19840225

Abstract (en)

[origin: US4719150A] Monofilaments and bristles which comprise at least 90% by weight of acrylonitrile units and have a linear density of more than 2.5 tex possess a relative solution viscosity of 1.7 to 6.0, a tear strength of at least 20 cN/tex and an initial modulus of more than 700 cN/tex. The manufacturing process is distinguished by a wet stretch of the spun filaments by at least 1:4, drying under tension and a subsequent hot stretch of at least 1:2, the overall stretch being at least 1:8, preferably 1:10 to 1:20. The monofilaments and bristles according to the invention are suitable in particular for producing filament-reinforced composite materials.

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A41D 1/00; D01F 6/18

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Citation (opposition)

Opponent : Bayer AG

- DE 2658179 A1 19780706 - BAYER AG
- DE 2434488 A1 19750703 - SCHWARZA CHEMIEFASER
- DD 204939 A5 19831214 - TOYO ENGINEERING CORP [JP]
- DD 139230 A1 19791219 - GROEBE VOLKER, et al
- GB 1193170 A 19700528 - MONSANTO CO [US]
- EP 0044534 A2 19820127 - HOECHST AG [DE]
- DE 1771998 A1 19711223 - CELANESE CORP
- DE 3210145 A1 19821209 - AMETEX AG [CH]
- "Synthesefasern", B.V. FALKAI, 1981, pages 203 - 212, XP055262343
- ULLMANN'S ENCYCLOPÄDIE DER TECHNISCHEN CHEMIE, vol. 11, pages 327 - 333, XP055262354

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