

Title (en)
FIXED POLYACRYLONITRILE FILAMENTS AND FIBRES, AND PROCESS FOR PREPARING THEM

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Application
EP 82102086 A 19820315

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CH 191881 A 19810320

Abstract (en)
[origin: US4446206A] The invention relates to filaments and fibers spun from at least 98% by weight of polyacrylonitrile and relative viscosities of between 2.5 and 6.0 which have tensile strengths of more than 50 cN/tex with an elongation at break of at most 15% and a shrinkage at the boil of less than 5% and to a process for their production which comprises at least 2 stretching stages with a minimum stretching ratio of 1:9 as well as a concluding setting stage in which the filaments are treated without shrinkage in dry heat at 170 DEG to 280 DEG C. Such filaments and fibers are distinguished by an increased resistance to swelling and hydrolysis and they are particularly suitable for reinforcing organic and inorganic materials.

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D01F 6/18

IPC 8 full level
D01F 6/18 (2006.01)

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D01F 6/18 (2013.01 - EP US); **Y10T 428/2913** (2015.01 - EP US)

Cited by
EP0165372A3; EP0554775A3; EP0154217A3; DE102009019120A1; EP0645479A1; EP0213772A3; US6228966B1; WO9826116A1

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