

Title (en)

Polytetrafluoroethylene fiber and method for manufacturing the same

Title (de)

Polytetrafluorethylenfaser und Verfahren zu deren Herstellung

Title (fr)

Fibre de polytétrafluoroéthylène et son procédé de production

Publication

EP 1574603 B1 20091028 (EN)

Application

EP 05005155 A 20050309

Priority

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Abstract (en)

[origin: EP1574603A1] A polytetrafluoroethylene (PTFE) fiber includes a filament (1) obtained by partially slitting an oriented PTFE film in a lengthwise direction of the film. Emboss processing is conducted linearly along the lengthwise direction of the film and like a zigzag shape or a convexo-concave shape in a width direction of the film, followed by slitting, whereby the filament (1) includes a network structure (3) in which single fibrils (2) that are opened partially are arranged regularly. A PTFE short fiber is obtained by cutting the above filament and includes a branch structure. Thereby, a PTFE fiber with a small average fineness of single fibrils, a uniform fineness and a single-peak distribution with the peak at a center of fineness and with a high production yield and uniform and stable branch structure can be provided and a method for manufacturing the PTFE fiber can be provided. <IMAGE>

IPC 8 full level

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