

Title (en)

HIGH-STRENGTH FINE-DENIER POLYESTER MULTIFILAMENT

Title (de)

MULTIFILAMENT AUS HOCHFESTEM POLYESTER MIT HOHER GARNFEINHEIT

Title (fr)

MULTIFILAMENT DE POLYESTER TRÈS RÉSISTANT À DENIER FIN

Publication

**EP 3719183 B1 20240814 (EN)**

Application

**EP 18884607 A 20181109**

Priority

- JP 2017227923 A 20171128
- JP 2018041591 W 20181109

Abstract (en)

[origin: EP3719183A1] In this polyester multifilament, a core-component high-viscosity polyester and sheath-component low-viscosity polyester have been composited into a core-in-sheath, wherein the difference in intrinsic viscosity between the core component and the sheath component is 0.20 to 1.00, the total fineness is 4 to 30 dtex, the single-yarn fineness is 1.0 to 5.0 dtex; the breaking strength is 5.0 to 9.0 cN/dtex, the fracture elongation is 12 to 45%, the degree of interlacement is 2.0 to 15.0/m, and the number of filaments thereof is 3 to 15. This fine-denier polyester multifilament has high strength and excellent wear resistance and convergence, and makes it possible to obtain a high-density thin woven fabric suitable for use with athletic and outdoor clothing by combining excellent durability, weaving properties, and fabric grade.

IPC 8 full level

**D02J 1/08** (2006.01); **D01F 8/14** (2006.01); **D02G 3/04** (2006.01)

CPC (source: EP KR US)

**D01D 5/34** (2013.01 - KR); **D01F 8/14** (2013.01 - EP KR US); **D02G 3/045** (2013.01 - EP); **D02G 3/36** (2013.01 - KR); **D02J 1/08** (2013.01 - EP); **D10B 2331/04** (2013.01 - EP KR); **D10B 2401/063** (2013.01 - KR); **D10B 2505/18** (2013.01 - KR); **D10B 2507/00** (2013.01 - KR); **D10B 2509/00** (2013.01 - KR)

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