

Title (en)

Elastic core and sheath type composite filaments and textile structures comprising the same.

Title (de)

Elastische zusammengesetzte Kern-Mantel-Filamente und damit hergestellte Textilstrukturen.

Title (fr)

Filaments composés élastiques du type "âme-gaine" et structures textiles contenant ces filaments.

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Application

EP 91106833 A 19910426

Priority

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Abstract (en)

An elastic core and sheath type composite filament composed of a thermoplastic non-elastomer sheath component, such as polyamide, copolyester and polyolefin, and a crosslinked polyurethane core component, preferably predominantly allophanate-crosslinked, wherein a core/sheath conjugate ratio (X) and a crosslink density (Y μ mol/g) of the polyurethane satisfy simultaneously the inequalities: $3 \leq X \leq 100$, $Y \geq 0$ and $Y \geq -8.7X + 52$. The filament of the invention free from tackiness and excellent in elastic stretch recovery, heat resistance, and workability in knitting or weaving, can provide textile structures of high quality, for example, high-stretchable, support type stockings with good appearance and tactile properties.

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Cited by

CN112771093A; US5565270A; CN115142151A; CN109970946A; LU502631B1; US2016122907A1; EP3004437A4; US11274381B2; WO2014194070A1; US6637181B1; WO2019215104A1; WO2024028489A1

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