

Title (en)

Bicomponent looped yarns with a fine yarn count and high strength, method of production and their use as sewing and embroidery threads

Title (de)

Feintitrige Zweikomponenten-Schlingengarne hoher Festigkeit, Verfahren zu deren Herstellung und deren Verwendung als Nähgarne und Stickgarne

Title (fr)

Fil à deux composants bouclé de titre fin et à haute résistance, procédé de sa production et l'utilisation comme fil à coudre et fil à broder

Publication

EP 0586951 B1 19991006 (DE)

Application

EP 93113342 A 19930820

Priority

DE 4228443 A 19920826

Abstract (en)

[origin: EP0586951A1] There are described two-component (bicomponent) loop (looped) yarns composed of core (scaffolding) and effect filaments made of synthetic polymers, which are characterised in that they have a final (end) tenacity of at least 30 cN/tex and a final linear density of less than 200 dtex and in that their core and effect filaments each have a total linear density of less than 100 dtex in each case. The yarns described are preferably useful as sewing threads. They are obtainable by a process comprising the measures of: a) feeding two or more feed yarn strands made of synthetic polymers at different speeds into a texturing nozzle (jet), said feed yarn strands each having a total linear density of less than 100 dtex, b) intermingling (entangling) the feed yarn strands in the texturing nozzle under conditions to form a yarn consisting of core and effect filaments and having loops formed chiefly of effect filaments on its surface, c) withdrawing this primary two-component loop yarn under tension so that, through reduction of the loop size, said primary yarn becomes mechanically stabilised, d) heating the stabilised primary yarn to set the yarn structure, and e) choosing the total linear densities of the feed yarn strands, the difference in the transport speeds of the feed yarn strands and the intermingling, mechanical stabilisation and setting conditions in such a way as to produce a two-component loop yarn having a final linear density of less than 200 dtex.

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DE

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