

Title (en)

SPUN-DYED, CRIMPED POLYLACTIC ACID FIBER, METHOD FOR MANUFACTURE THEREOF, AND CARPET

Title (de)

SPINNGEFÄRBTE, GEKRÄUSELTE POLYMILCHSÄUREFASER, HERSTELLUNGSVERFAHREN DAFÜR SOWIE TEPPICH

Title (fr)

FIBRE D'ACIDE POLYLACTIQUE FRISÉE TEINTE DANS LA MASSE, PROCÉDÉ DE FABRICATION CORRESPONDANT ET TAPIS

Publication

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Application

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Abstract (en)

A spun-dyed textured polylacted filament yarn according to the present invention comprises a textured polylacted filament yarn, wherein the textured polylacted filament yarn includes a filament having an approximately circular or circular cross-section and has a relative viscosity of 2.5 to 3.8, wherein the textured polylacted filament yarn contains a coloring agent in an amount of 0.01 to 3 mass%, and wherein the textured polylacted filament yarn is 1.75 to 3.5 cN/dtex in tenacity, 35 to 60% in elongation, 500 to 3,500 dtex in total fineness, 2.5 to 25 dtex in a filament fineness, 2 to 8 % in hot water shrinkage ratio, and 5 to 25 % in dry heat crimp ratio. By employing the above structure, a spun-dyed textured polylacted filament yarn excellent in loftiness, toughness and abrasion resistance can be obtained. It is preferable that the cross-section of the filament has a degree of deformation less than 1.5, the degree of deformation being expressed by a ratio (B/A) of a diameter B of an circumscribed circle of the filament cross-section to a diameter A of a inscribed circle of the filament cross-section.

IPC 8 full level

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