

Title (en)
POLYESTER FIBERS AND PRODUCT OF DYEING OF FABRIC MADE OF FIBER MIXTURE CONTAINING THE SAME

Title (de)
POLYESTERFASERN UND EINE MISCHINGAUS DIESEN ENTHALTERDEN GEFÖRHTEN GEWEBEN

Title (fr)
FIBRES DE POLYESTER ET PRODUIT DE COLORATION D'UNE ETOFFE CONSTITUEE D'UN MELANGE FIBREUX RENFERMANT CES FIBRES DE POLYESTER

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Application
EP 96925962 A 19960731

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Abstract (en)
Disclosed are an improved polyester fiber capable of attaining a heavy shade dyeing with a fast color by dyeing with a disperse dye at a temperature of 95 DEG C or less and a piece dyed fabric of a polyester fiber composite containing therein a fiber selected from a group consisting of a cellulosic fiber, wool fiber, silk, acetate fiber, polyamide fiber, stretch fiber. The improved polyester fiber having a peak temperature of the loss tangent ranging from 90 to 108 DEG C and composed of a copolymerized polyethylene terephthalate comprising: from 1.5% to 4.5% by weight of polyethylene glycol having a molecular weight ranging from 500 to 4000; and from 9% to 6% by weight of adipic acid in a ratio satisfying $1.3 \leq$ % by weight of adipic acid/% by weight of ethylene glycol ≤ 6 . The polyester fiber has a capability of being dyed at a temperature of 95 DEG C or less with a disperse dye, and the dyeing exhibits a superb color fastness to dry-cleaning, color fastness to light and thermal properties. Especially, the polyester fiber exhibits a balanced exhaustion of a dye combination in practical dye combination dyeing, and black dye dyeing can be carried out at 95 DEG C. Accordingly, in the above-mentioned fabric of fiber composite containing non-polyester fiber, a piece dyed fabric, with vivid color, of a polyester fiber composite in which any specific property of a mixed non-polyester fiber can be provided by a very productive means.

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