

Title (en)

Air jet-texturing process for production of low-shrinkage polyester yarn.

Title (de)

Lufttexturiervfahren zur Herstellung niedrigrschumpfenden Polyestergerarns.

Title (fr)

Procédé de texturation par jet d'air pour la production de fil en polyester à rétrécissement restreint.

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Application

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Priority

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Abstract (en)

A process is disclosed for producing an air jet textured polyester yarn having a low dry heat shrinkage. The process comprises the steps of: (a) cold drawing a spin-oriented polyester yarn at a draw ratio of from 1.3 to 2.0; (b) preheating the drawn yarn at substantially constant length; (c) feeding the yarn to an air jet at a 10% to 40% overfeed; (d) jet-texturing the yarn with the air jet; (e) drawing the jet-textured yarn at a draw ratio of 1.04 to 1.12; (f) winding up the resulting air jet-textured yarn. In an embodiment of the process a step of post-heating the jet-textured yarn is included between step (e) and step (f) in order to reduce the size of the surface loops and to improve the stability of the jet-textured yarn. In the illustrated embodiment step (a) is performed between roll assemblies (13) and (17), step (b) by heater plate (20). Passing through a water bath (26) the yarn is fed to the air jet bulking device (28) at an overfeed regulated by roll assemblies (21) and (29). Step (e) is performed between roll assemblies (29) and (32), after which the jet-textured yarn is post-heated by heater plate (35). The yarn is wound on package (39).

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D02G 1/00

IPC 8 full level

D01F 6/62 (2006.01); **D02G 1/16** (2006.01)

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D02G 1/168 (2013.01)

Citation (search report)

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