

تأثير اختلاف نسبة الحشو في أقمشة تريكو اللحمة الجاكارد متعددة الطبقات على خواص الأداء لها

Effect of Different Filling Ratio of Multi-Layers Jacquard Weft Knitted Fabrics on Its Performance Properties

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Abstract

Multilayered fabrics represent a large sector in the field of upholstery fabrics used as furniture upholstery or as mattress covers and the global technological development in the jacquard circular weft knit fabric industry, which has enabled the production of multi-layered fabrics with a variety of designs and functional performance can also be used in upholstery. The multi-layer knitting fabric consists of two layers, one face and the other back, and an inner layer called the filler layer which represents plays an important role in both the form of design and the thickness of the fabrics and their different properties as well as the end use. By increasing filling ratio, the fabrics produced are suitable for placement as mattress covers and if filling ratio is lower, they can be used for furniture upholstery, bedding or quilts.

So, research is aimed to study the effect of the difference in filling ratio "due to different design and the linear density of filler yarn" for the multi-layered jacquard weft knit fabric on some physical and mechanical properties. (12) samples were produced on double weft knitting machines in different designs (3 designs) as well as the thickness of filler yarn (DTY Polyester, 600-1200 denier).

Keywords: Jacquard Weft Knitting - Multi-Layered Fabrics - Polyester DTY.