

THE EFFECT OF WARP TENSION ON JACQUARD FABRIC SPECIFICATION

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ABSTRACT

This research examines the influence of cloth variables on warp tension, There are two advantages to applied the suitable tension on warp yarn:

- Increase loom producing by decrease cutting warp yarn that's because use the suitable warp tension.
- Improve the woven fabric specifications by increase its resistance to tension and friction resultant by usage.

Chenille fabric was chosen for the test because it is composed of a complex weave structures, on the other hand it is one of the most commonly used fabrics in the practical field. The effect four fabric variables have been studied on warp tension, which are (weft density, weft count, weft type and weave structure). Through identify the cloth specifications at each value of those variables values. Authentic cloth specifications for comparison are the fabric tensile toward warp, fabric tensile toward weft and friction resistance.

It has been shown that relationship between weft density with warp tension is an inverse relationship, while the relationship between weft count and weave float with warp tension is a direct relationship, and there is no effect of the weft type to warp tension.

KEYWORDS: Warp Tension, Cloth Specifications, Fabric Parameters