

# **Effect of Different Constructions of Elastic Bands Produced by Crochet Warp Knitting Machine On its Functional Properties as Clothing Supplements**

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## **Abstract**

The forms and types of bands are varied, and are used as an aesthetic touch to decorate pieces of clothing such as fixing them around the pockets, sleeves, collars, bracelets, bracelets, etc. in addition to their function in finishing the edges of the threads of clothing cut and finishing to obtain aesthetics and functional together. The bands are selected as prefabricated or other depending on the type of cloth used with it and its purpose, preferably when installing the strips on the clothes pieces to move away from the areas desired to hide. The types of tapes currently in the market: - Woven tapes - Crochet tapes.

This research deals with the improvement of the functional properties of the elastic tapes used as supplements for the internal and external garments produced using the crochet warp knitting machine by controlling the machine's settings, the quality of the raw materials used, the percentage of the elastic yarns and the different constructions used.

18 samples of different crochet warp knitting tapes were produced, various construction parameters are used on the same crochet machine. The effect of those variables on the functional properties of produced tapes were studied.

Based on the analysis and discussion of the previous results, the best specification for the elastic produced tapes as clothing supplements can be determined to suit their functional performance from the results of the laboratory tests and thus contribute to the development of the local product of the elastic produced tapes as clothing supplements to be able to compete in foreign markets.

## **Key words:**

Elastic Bands, Warp Knitting, Krochet Machine, Clothing Supplement, Loop Chain.