

Taking advantage of the modern technological possibilities of shuttle-less weaving machines on the aesthetic side for ladies fabrics produced by high-twist polyester fibers.

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Abstract:

The design of textiles does not depend on the selection of simple compounds of plain weave textile, 1/1 or Twill weaves or Satin Weaves. It doesn't depend also on using color effects in the production of decoration, but rather to produce single-color fabrics where different production theories are used to obtain the effects of Striped patterns or One or more decorations, which represent or provide many features, and fabrics with Striped patterns have special characteristics that are not available in other fabrics, as these fabrics are used for T-shirts or upholstery, which improves the aesthetic appearance of fabrics in the simplest possibilities, which leads to increased strength For its purchasing power.

There are many technical methods for the production of Striped patterns fabric have increased recently in the Egyptian market and became very competitive which prompted the researcher to do studies contribute to enrich the production of this type of fabrics, as ten samples have been produced, taking advantage of the latest modern technologies in weaving looms, Three samples using an additional Over Beam, three samples using a color -selector device, and four samples by controlling the change in the speed of turning the (Cramming motion) on and off. This led to the possibility of producing some aesthetic variables for ladies' fabrics by obtaining linear twisted fabric by using an over beam, resulting in multi-level fabrics, and crosswise striped pattern using the Color Selector by using decorative Wefts with different types of continuous polyester filaments where Different thicknesses are used by controlling the change in the speed of the Cramming Motion. The suspension of the Cramming Motion results in a difference in the densities of the design Wefts, where different thicknesses are used in different densities for single design to obtain linear striped patterns With highs and lows and therefore all these variables led to increase the aesthetic and decorative value of this type of fabrics, which increases the spread of this type of fabrics.

Key Words:

Shuttle-Less Looms –Ladies Fabrics –Polyester fiber - POY - DTY - FDY – ITY –VID.