

The Summary of The Research

Summary

Current research aims mainly to improve the quality of seams through several sub-goals , namely :

1. Determine the most appropriate type of severity of weft thread affects the properties of the functionality of the quality of sewing fabrics producer .
2. Determine the most appropriate installation weave affect the properties of the functionality of the quality of sewing fabrics producer .
3. Determine the most appropriate weft thread density in the unit of measurement affects the properties of the functionality of the quality of sewing fabrics producer .
4. Determine the most appropriate values for the variables or elements of the sewing process and represented in : Comb nutrition from where his teeth step length , sewing needle in terms of size , the density of stitches per unit length.

Has been producing fabrics suitable for this purpose several different variations where the warp thread specifications fixed for all fabrics , where the samples were spun fabrics at Misr Spinning and Weaving Mahalla al-Kubra using dobby loom works to pay the water, and the following variables :

Type of weft yarns:

The use of three kinds of raw materials for the weft yarn are:

1. 100% cotton yarns 20 / 1 cotton .
2. 100 % Viscose yarns 20 / 1 cotton .
3. 100 % polyester yarns 20/1 cotton .

Weft setting :

Three densities were used to thread the meat in the unit of measurement are:

1. 56 weft / inch.
2. 62 weft / inch.
3. 68 weft / inch.

Fabric structure :

The use of two types of installation Textile crepes are :

1. Crepe pad 1 / 1 way to add and delete markers.
2. Crepe cooler 2 / 2 way to crawl and rotation.

The links have been implemented using these fabrics weaving and the following variables :

Stitch density :

Three densities were used for stitches in the unit of measurement are:

1. 7 stitches / inch.
2. 12 stitches / inch.
3. 17 stitches / inch.

Needle size :

The use of three types of needle size are:

1. Needle size 12 .
2. Needle size 14 .
3. Needle size 16 .

Feeding Combs Type :

The use of two types of feeding combs are:

1. Comb length step- year 1.2 mm.
2. Comb length step- year 1.5 mm.

Then conducted some laboratory tests on samples search to determine the various properties and the relationship of these variables study properties of textile lab the measurement Institute in Cairo and in the air standard, these tests included the following properties :

1. seam strength.
2. seam efficiency .
3. Seam tearing persistence .
4. Elongation seam.
5. seam slippage.
6. seam puckering.

After the data has been processed resulting from the tests are statistically
The study found :

1. Best samples in terms of the characteristics tested sample is made of the severity Weft type (Polyester) , plain weave (Crip manner crawling and turning Twill 2/2) , density weft (56) , length of step Food Comb (1.5) , needle size (16) , stitches density (17) .
2. Less samples in terms of the characteristics tested sample is made of the severity Weft type (Viscose) , plain weave (Crip manner crawling and turning Twill 2/2) , density weft (62) , length of step Food Comb (1.5) , needle size (12) , stitches density (7) .