

A Study on Ease for the Skirt of Stretch Fabric according to the Body Types(III) - Focused on Fat Body Type -

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Recently, body-fitted clothing style is in fashion. Consumers start to seek to buy comfortable and flexible clothing. According to these changes in fashion trends, the importance of stretch fabric stands out. A lot of studies on non-stretch woven fabrics have been made, but few studies on stretch fabrics has been made yet. Especially, the studies on ease for the patterns, according to body types, of stretch fabric have rarely been made. Stretch fabrics have strong relations to the body because they clearly show the contours of the wearer's body. Therefore, it is very significant to find out appropriate amount of ease for the skirt made of stretch fabric according to the body types.

The purpose of this study, which is followed by 'A Study on Ease for the Skirt of Stretch Fabric according to the Body types(I) -focused on standard body type-(K. H. Sul and M. A. Suh, 2001), and 'A Study on Ease for the Skirt of Stretch Fabric according to the Body types(II) -focused on thin body type-(K. H. Sul and M. A. Suh, 2001), was to make clear reduction ratio due to the stretch ratio and to find out the appropriate ease for the patterns of stretch skirt according to the fat body type. Therefore, fundamental data for aesthetic and functional patternmaking of the stretch skirt can be suggested.

For this study, experimental skirts which were different each other in terms of the amount of ease on waist and hip, were made for the appearance test and the wearing satisfaction test. The material for experimental skirts was 96% polyester with 4% Polyurethane and stretched only in the warp direction. The stretch ratio of the fabric was 26.8%. After the appearance test and the wearing satisfaction test, the best-fit-patterns for the fat body type were found out.

The methodology of data analysis were descriptive statistics, reliability analysis, one-way ANOVA and Duncan test by means of SPSS.

1. The results from the appearance test were that W+2cm and W+0cm for fat body type were suggested for the best fit for the ease on waist and that H+2cm and H+0cm for fat body type were suggested for the best fit for the ease on hip.

2. The result from wearing satisfaction test was that $W+2\text{cm}$, $H+2\text{cm}$ for fat body type was suggested for the best wearing satisfaction.
3. Based on the results from the above tests, the pattern reduction ratios for stretch skirt were as follows. Pattern reduction ratio 0~2.4% of waist, 1.9~3.8% of hip for fat body type, were suggested for the appropriate reduction ratio for stretch skirt.
4. The result from this study for stretch skirt was as follows. For the fat body type, $W+0\sim 2\text{cm}$ for waist and $H+0\sim 2\text{cm}$ for hip were appropriate for stretch skirt patterns. Therefore, different ease according to different pattern reduction ratio for body parts, especially on waist and hip, were suggested for the stretch skirt pattern for the fat body type.