

IMPACT OF VARIOUS YARN OF DIFFERENT FIBER COMPOSITION ON THE DIMENSIONAL PROPERTIES OF DIFFERENT STRUCTURE OF WEFT KNITTED FABRIC

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ABSTRACT

In this paper, the unpredictable problem of shrinkage of cotton knitted fabrics and garments, faced by the industries were investigated by knitting weft knitted fabrics using 100% cotton yarn, chief valuable cotton (CVC) yarn, mélangé yarn, polyester-cotton (PC) yarn and 100% polyester yarn on Fukahama knitting machine. The aim of this work was to compare the spirality and shrinkage% of different weft knitted fabric structure. The experiment showed that percentage of spirality and shrinkage is higher for 100% cotton yarn and lower for 100% polyester yarn. It was also found that slub single jersey (S/J) fabric has higher spirality% in case of all types of yarn and terry single jersey gives higher shrinkage%, when produced from CVC yarn. On the other hand, cross tuck fabric gives lower spirality% in case of all types of yarn.

KEY WORDS: Spirality, Shrinkage, Single Jersey, Knitting, Yarn

