CONCLUSIONS:-

1. The samples measurements taken at four washing treatments and tumble drying indicate that initially (at the 1st washing treatment) the fabric dimensions change very much more than (after washing) 2nd, 3rd, 4th washings both for 100% cotton materials and 65/35 polyester cotton material.

2. In fabrics made from cotton, at every loop length the length shrinkage and width expansion is observed area shrinkage is smallest at smallest loop length. Therefore tight cotton fabrics exhibit low area shrinkage which are desired by the customers.

3. In fabrics made from 65/35 polyester cotton the area shrinkage is almost the same at every loop length.

   a.But the width shrinkage is minimum at higher loop length.

   b.Length shrinkage is minimum at lower loop length.

4. According to these project results smaller loop lengths are recommended to produce cotton interlock fabrics to minimize the width & area shrinkages and every one of the tested loop lengths on polyester/cotton fabrics gives quite acceptable results.

5. None of them exhibited width expansion after washing which was observed in all 100% cotton fabric which were tested.

In production of cotton knit-goods great accuracy is required in the establishment and use of input variable to make certain of complaince to customer requirements. For this purpose sensitive measuring instruments, well trained technical personnel, precision machinery, and high quality raw materials are needed. Inspite of all these requirements, even with computer aided advice, shrinkage variation in interlock cotton knit-goods of up to 8% cannot, as yet, be eliminated.

Therefore ~~the~~ only way to produce satisfactory ~~cotton~~ knit-fabric ~~is~~ blending cotton with polyester, polynosic etc. is recommended.

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