Fabric Manufacturing I (TXL231)

Dr. Sumit Sinha Ray

Asst. Professor

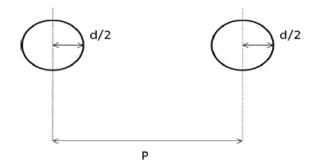
Department of Textile and Fibre Engineering



P1. The length of a fabric is 10 m. The length of a warp yarn, removed from the fabric, in straight condition is 10.8 m. Determine the crimp% in warp direction. What should be contraction %?

P2. Prove that for cotton yarn with packing factor of 0.6, diameter (inch) = $\frac{1}{28\sqrt{Ne}}$ (Note that- Yard: 840 x 36 inch, Density of cotton fibre is 1.51 g/cm³)

P3. A cotton fabric is made from 20 Ne warp and ends per inch is 50. Determine the warp cover factor



P4. Show that the expression for fabric cover factor is $K_1+K_2-(K_1.K_2/28)$, where K_1 is warp cover factor and K_2 is weft cover factor.

