

TECHNICAL TUESDAYS

TOPIC: PILLS & PILLING ON TEXTILES

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What is Pills?

Pills is a small ball or entangled fibers that forms on the Surface of the Textiles.

What is pilling?

Pilling is the mechanical action that causes fibers to migrate out of the fabric body to the fabric surface, Further action causes the fibers to rotate around other protruding fibres forming pills.

Pilling is a surface defect of textiles caused by wear, and is considered unsightly.

Pilling normally happens on the parts of clothing that receive the most abrasion in day-to-day wear, such as the collar, cuffs, and around the thighs and rear on trousers.



Fig:Fabric Contain Pills

Few Factors Which Affecting Pilling:

Twist factor of yarn on the fabric:

The yarn with lower twist factor will more prone to pill than the yarn with higher twist factor.

It is therefore necessary to choose slightly higher twist factor for single /doubled yarn if it would not adversely affect the feel of the fabric. The double yarn exhibits less pills.

Fabric construction:

Closed weave fabric with a high set, pills less. Plain weave fabric with maximum yarn intersections gives better pill rating.

Weaves with longer floats like twills and sateen have less binding points so pill more.



Finishing Treatment to Control Pilling:

Physical- Treatment-Shearing or Cropping, Singeing etc.....

Chemical Treatments-Application of polymers by padding and coating techniques,By Enzyme ,Softners

Wishing you a happy week ahead!

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