

TECHNICAL TUESDAYS

TOPIC: Pilling

REF: TT/ APR 2016/ WK 1

Pilling:

Pilling is the formation of little balls of fibers (pills) on the surface of a fabric which is caused by abrasion. Pilling is the tendency of fibers to come loose from the surface of a fabric to form a collection or a ball of fibers.



Causes of Pilling:

1. Wear and abrasion.
2. Rubbing action of fabric with particular parts of garments and body.
3. Soft twisted yarn.
4. Excess of short fibres.
5. Migration of fibres from constituent yarn in fabric.
6. Protruding fibre / yarn hairiness.
7. Heat in case of thermoplastic fibres.

How to reduce or minimize pilling:

1. By using high twisted yarn.
2. By brushing and cropping the fabric surface to remove loose fibre ends.
3. By using the singeing process to reduce yarn hairiness, longer fibres.
4. By using anti-pilling techniques.
5. Through special chemical treatments such as adhesives, anti-rubbing agents.
6. By increasing inter-fibre friction.
7. By increasing linear density of the fibre.
8. By using a high number of threads per unit length.

Wishing you a great week ahead!

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