

Pilling

Pilling is formation of little balls of fibers (pills) on the surface of clothes which is caused by abrasion in wear. Pilling is the tendency of fibers to come loose from a fabric surface and form balled particles of **fiber**.



Fig Pilling on cloth

Causes of Pilling:

1. Due to wear and abrasion
2. Due to rubbing action of fabric with particular parts of garments and body.
3. Due to soft twisted yarn
4. Due to excess short fibres.
5. Due to migration of fibres from constituent yarn in fabric.
6. Due to protruding fibre / yarn hairiness.
7. Due to heat in case of thermoplastic fibres.

Reduction OR Minimizing Pilling:

1. By using high twisted yarn
2. By brushing and cropping of the fabric surface to remove loose fibre ends.
3. By using singeing process to reduce yarn hairiness, longer fibres.
4. By using anti pilling technique.
5. By special chemical treatment such as adhesive, anti-rubbing agent.
6. By reducing migration of fibres by means of Air Jet spinning process.

7. By increasing inter-fibre friction
8. By increasing linear density of the fibre.
9. By using a high number of threads per unit length