

Technical Tuesday

REF:TT/ SEP 2012/ WK 4

TEXTURISATION PROCESS FOR SYNTHETIC TEXTILES

What is texturisation?

- The Techniques used to modify structural characteristics of synthetic fibres to make them bulkier and fuller in appearance without converting them in to staple fibre, by permanent introduction of crimps, coils, loops and waviness in to the continuous filament yarn.

Need of Texturisation process for synthetics:

- Natural fibres have certain amount of crimp and waviness that helps to impart some degree of bulkiness, which is desirable property in textile fibre.
- But synthetic fibres have a smooth surface and circular cross section, when we woven in to fabric it becomes slippery to touch.
- Even though synthetic fibres have good appearance it is lack in warmth, bulk, comfort, dimensional stability property.
- This property can be developed in fabrics by using synthetic fabrics in crimped and stable form.
- So far achieving the above characteristics an additional process of crimping and cutting the continuous filament in to stable fibre is involved.
- To utilize the synthetic fibre more advantageously in their continuous filament form, new technique is followed called Texturisation.

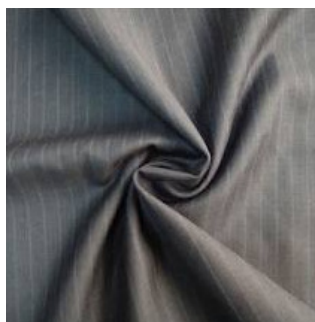


Fig: Texturised polyester Yarn fabric



Fig: Normal polyester yarn fabric

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Methods of Texturisation:

There are various methods are Followed for texturisation for synthetic filaments

- False Twist Texturisation method
- Stuffer box crimping method
- Air jet Texturising method
- Knit and Deknit method

Properties of Texturised Yarn:

- Textured yarn gives better cover due to increased bulk.
- Textured yarns have better softness in handle.
- Textured yarn fabrics are easy to wash.
- Textured yarn fabrics have good abrasion resistance.
- Textured yarn fabrics have good strength.
- Textured yarn have good moisture content, this is due to the air entrapped between the interstices of the textured yarn.

“Have a happy week ahead”

To be continued.....

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