

Technical Tuesday

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Phenolic Yellowing on Textiles

Yellowing In General:

- The yellowing on textile is the main problem facing by the textile industries from long back.
- There are numerous factors are responsible for yellowing on textiles such as chemicals used on textiles during wet processing, fibers, atmospheric pollutants etc...
- The most common yellowing on textile is phenolic yellowing also known as storage yellowing, ware house yellowing.
- The yellow stain occurs mainly on crease, folds can appear on white or light coloured fabric stored in certain plastic bags for sale.

Why Phenolic yellowing happening on Textiles?

- The phenolic antioxidants present in the packing material along with exposure to oxides of nitrogen & alkali pH of the fabric or garment are responsible for yellowing.
- The antioxidants includes para-phenylenediamine(PPD) & Butylated hydroxytoluene(BHT),The oxides of nitrogen is the by product of combustion of petrol ,diesel etc...

How the phenolic yellowing will occur on Textile Goods:

- The phenolic anti-oxidants present on the packing materials like plastic covers will migrate on textiles
- When the textiles get exposure with oxides of nitrogen present in the atmosphere along with the core alkali present on the textiles after textile wet processing will causes Phenolic yellowing.

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How to Protect Textiles from Phenolic Yellowing:

- Use BHT free Plastic bags for cover the Textiles
- Neutralize the textiles after alkali wet processing treatment using Acetic acid or core alkali Neutralizer.
- Keep the textile away from Oxides of nitrogen gases.
- Finish the textile goods using Anti-Phenolic yellowing Textile finishing agents.

“HAVE A HAPPY WEEK A HEAD”



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