

VARIOUS POLYESTER VISCOSE(PV) BLENDED/PV BLENDED DOPE DYED FABRICS

This document list out the essential plant and machinery requirement of various PV/PV blended dope dyed fabrics. This documents also list out the essential test equipment requirement of various PV/PV blended dope dyed fabrics.

Essential Plant & machinery Requirement for spinning:-

1. Blending Machine (If blending carried out at Blow Room stage)
2. Blow Room Line
3. Carding Machines
4. Draw Frames
5. Fly Frames
6. Ring Frames
7. Autoconer or equivalent Cone Winding Machine with electronic yarn cleaner device and splicing arrangement.
8. Parallel Winding
9. Two For One Twisters (TFO)

Note:-

In addition to above, controlled atmosphere of production shop for Humidity & Temperature is an essential requirement

Essential Plant & Machinery Requirement for Weaving:-

1. High Speed Warping machine.
2. Sizing Machine (Must necessary for fabric produced with single ply warp yarn and may not be mandatory for the same with double/multi fold yarns except for yarn having count finer than 2/40^s, or being woven on very high speed Shuttle less looms i.e. above 300 picks per minute- which is required to be verified by CV team).
3. Shuttle less looms with Dobby attachment to weave firms name or trademark along selvages.

Note:-

Controlled atmosphere of Production Shop for humidity & temperatures is an essential requirement

Essential Plant and Machinery Requirement for Processing:-

1. Grey Fabric Inspection Machine
 2. Singeing
 3. Stenter
 4. Desizing machine/unit (If sizing has been carried out during weaving preparatory)
 5. Decatising Machine
 6. Sanforising or Zero-Zero Machine
- } Necessary only for Cloth Plain Weave Polyester Viscose Dope Dyed various shades (Specn. No. IND/TC/0048(g))

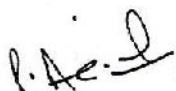
Essential Test Equipments:-

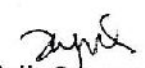
1. Measuring Scale / Tape for length/width measurement.
2. Pick Glass / Counter for End/Picks.
3. Weighing Balance for GSM and miscellaneous works.
4. Template for Shrinkage Test for relaxation shrinkage.
5. Twist Tester for turn per dm.
6. Tensile Strength Tester for Breaking Load.
7. Microscope for fibre identification.
8. Digital PH Meter for pH value of aqueous extract.

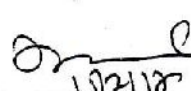
9. Scouring Loss Test Apparatus (Soxhlet Apparatus, Oven & Glassware) for scouring loss/various chemical tests.
10. Crock meter for dye fastness to rubbing.
11. Perspirometer for dye fastness to perspiration.
12. Laundrometer for dye fastness to washing.
13. Blend Composition Test Apparatus (Chemical Balance, Oven & Glassware) for blend Composition.
14. Nature of Dye Testing Facility for dye identification (Hydro, chloro & levelling test).
15. Spectrophotometer (wherever applicable) for L,C,H and Delta values.
16. Heat shrinkage testing facility.
17. Tearing Strength tester.
18. Crease Recovery tester.
19. Abrasion resistance tester.
20. Drape meter (for Air Force items)
21. Pilling Tester (Where ever Applicable)
22. Conditioning Chamber for humidity and temperature
23. Light fastness tester*


Note:-


1. *If the firm does not have light fastness tester, the firm should have arrangement with NABL accredited lab for Dye fastness to Light for which a letter from NABL accredited lab should be issued to the firm that they are undertaking testing of samples from the firm.
2. The above list of test equipment is illustrative in nature which may or may not be relevant for certain type of fabric. Therefore at the time of capacity verification, the requirement of test equipment may be verified in accordance with test parameters in the specification and test equipment shall have required range to test the required parameters.
3. The firm should have valid composite mill certificate for all the three processes viz. Spinning, Weaving and Processing issued by Textile Commissioner, Mumbai. In case of expiry of certificate, copy of application for renewal should be provided.
4. For parameters viz Air permeability, MVTR and KAWABATA testing specific to cloth PV Dope Dyed various shades governed by specification No. IND/TC/0048(g) if the firm does not have testing facilities for these the firm should have arrangement with NABL accredited lab for these tests.



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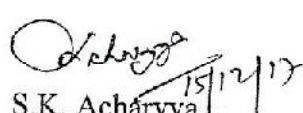

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