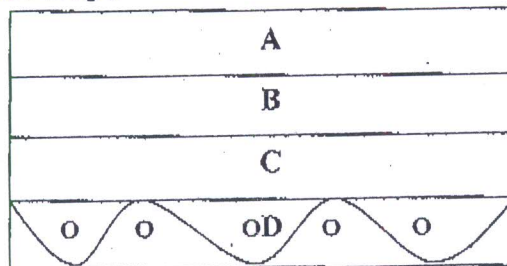


**TECHNICAL PARTICULARS OF POLYURETHANE COATED NYLON FABRIC, 550
N/cm BS, 300 gsm Mass**

1.0 Construction:

Suggested Schematic Coating Plan of Polyurethane Coating with approximate Coating Mass at each stage is furnished below in fig 1:

**Fig. 1: Construction of Fabric**

A - A Clear Top coating of ~ 40 gsm PU of Aliphatic polyether/ester grade

B - A clear coat of ~ 15 gsm PU of aliphatic polyether/ester grade with 3% cross linker (tie coat) by knife coating process.

C - A clear coat of ~ 15 gsm PU of aliphatic polyether/ester grade with 6% cross linker (tie coat) by knife coating process.

D - Dyed Plain/Mat 2/2. Woven Nylon-66 base fabric as per Para 2.

2.0 Suggested Technical Particulars for Fabric Nylon, 600 N/cm BS, 230 gsm to be used as Base Fabric for PU Coated Fabric

S. No	Parameters	Specified values	Test method
1.	Width, cm, min.	130	IS:1954
2.	Mass, gsm, max.	230	IS:1964
3.	Breaking strength, N/cm (min) Warp Weft	600 600	IS:1969
4.	Extension at break, % (min) Warp Weft	20 20	IS:1969
5.	Basic Material / Yarn	Nylon-66, bright, multifilament, high tenacity 8 gpd (min), Industrial grade, UV stabilized, heat set yarn	IS:667
6.	Weave (Suggested)	Plain Weave or Mat 2/2	Visual
7.	Finish	Scoured & Heat set with stentering at optimum conditions	-
8.	Thread density (Suggested) Ends/ cm Picks/ cm	22 or 44 22 or 44	IS:1963
9.	a) Nominal Denier x Ply (Suggested) Warp Way Weft Way b) Twist	420X 1 or 210X1 420 X 1 or 210X1 Spin twist	IS:3442
10.	Thickness, mm at 210 gm/cm ² max	0.4	IS 7702
11.	Colour of base fabric	Olive Green, Shade No. 220	IS: 5

3.0 Technical Particulars for PU Coated Fabric, 550 N/cm BS, 300 gsm Mass

S. No	Parameters	Specified values	Test method
1.	Mass, gsm (max)	300	IS:7016 Part I
2.	Breaking strength, N/cm (min) Warp Weft	550 550	IS:7016 Part II
3.	Extension at break, %, min Warp Weft	18 18	IS:7016 Part II
4.	Low Temperature Flex/Bent Test at (-) 30°C	No Crack	IS:7016 Part X
5.	Width, with selvedge, cm, (min)	120	IS:7016 Part I
6.	Minimum Roll Length, min.	50 m or as agreed between buyer & seller	IS:7016 Part I
7.	Resistance to Blocking at (+)70±2 °C	No Blocking.	IS : 7016Part IX
8.	Thickness, mm at 10 kN/m ² , max	0.55	IS:7016 Part I
9.	Adhesion Strength, N/cm Side A-Side A	8.0	IS:7016 Part V
10.	Resistance to Damage by Flexing – De-mattia method	No Crack in the fabric after 3000 cycles	IS: 7016 Part IV

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