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APPENDIX i : RESULTS

1. Results of Bending Test

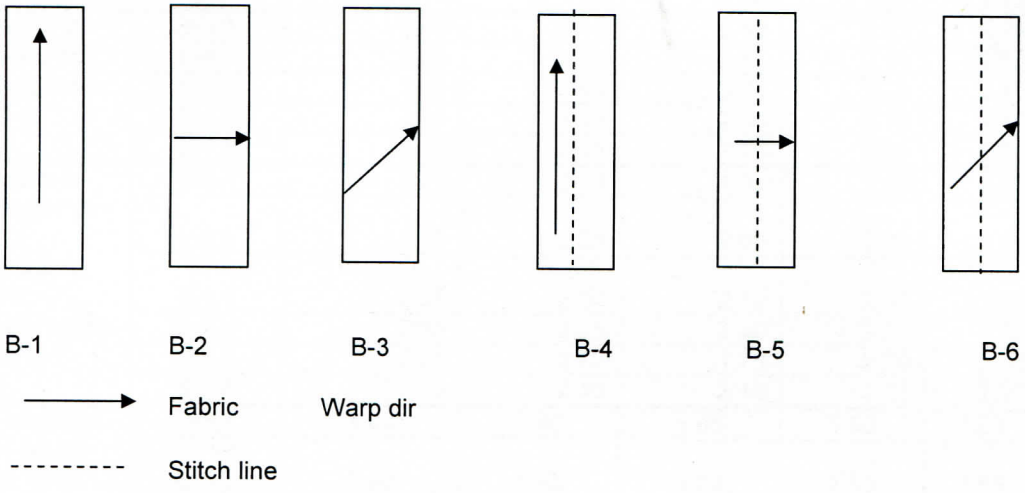

Figure 1: Sample type for bending test

Table 1: Result of bending test

Sample type	Sample NO	Bending length (cm)				
		(1) face	(2)reverse	(3) reverse	(4) face	average
No seam warp in length dir: B-1	B-1.1	1.50	1.50	1.50	1.55	1.50
	B-1.2	1.45	1.45	1.45	1.55	1.55
	B-1.3	1.35	1.35	1.75	1.70	1.58
	B-1.4	1.70	1.70	1.50	1.40	1.50
	B-1.5	1.50	1.50	1.40	1.60	1.55
	B-1.6	1.35	1.35	1.60	1.50	1.55
No seam weft in length dir: B-2	B-2.1	1.05	1.20	1.15	1.20	1.15
	B-2.2	1.05	1.20	1.35	1.20	1.20
	B-2.3	1.25	1.20	1.20	1.20	1.20
	B-2.4	1.15	1.20	1.15	1.20	1.18
	B-2.5	1.25	1.15	1.20	1.30	1.22
	B-2.6	1.00	1.25	1.00	1.35	1.10

Sample type	Sample NO		Bending length (cm)			
		(1) face	(2)reverse	(3) reverse	(4) face	average
No seam warp in 45° with length direction B-3	B-3.1	1.45	1.05	1.35	1.15	1.25
	3.2	1.25	1.30	1.20	1.40	1.28
	3.3	1.40	1.15	1.05	1.45	1.26
	3.4	1.20	1.25	1.25	1.20	1.22
	3.5	1.20	1.30	1.45	1.15	1.27
	3.6	1.15	1.30	1.15	1.30	1.22
seam in warp in length dir: B-4	B-4.1	2.40	2.10	3.50	3.05	2.75
	B-4.3	2.55	2.65	2.65	2.55	2.55
	B-4.4	2.40	2.65	2.30	2.35	2.40
	B-4.5	2.60	2.45	2.45	2.30	2.45
	B-4.6	2.50	2.55	2.70	2.50	2.50
seam in length dir & warp in 90° with length dir B-5	B-5.1	2.45	2.50	1.90	2.15	2.30
	B-5.2	2.30	2.30	2.00	2.20	2.25
	B-5.3	2.25	2.30	2.12	2.35	2.30
	B-5.4	2.35	2.25	2.40	2.20	2.30
	B-5.5	2.25	2.70	1.70	2.25	2.25
	B-5.6	2.25	2.40	2.10	2.05	2.20
seam in length dir.& warp in 45° with length dir. B-6	B-6.1	1.80	1.80	1.85	1.90	1.83
	B-6.2	1.80	1.85	1.80	1.85	1.85
	B-6.3	1.80	1.90	1.90	1.85	1.85
	B-6.4	1.75	1.95	1.85	1.70	1.80
	B-6.5	1.90	1.95	1.95	1.70	1.85
	B-6.6	1.80	1.90	1.85	1.80	1.80

2. Results of Draping Test

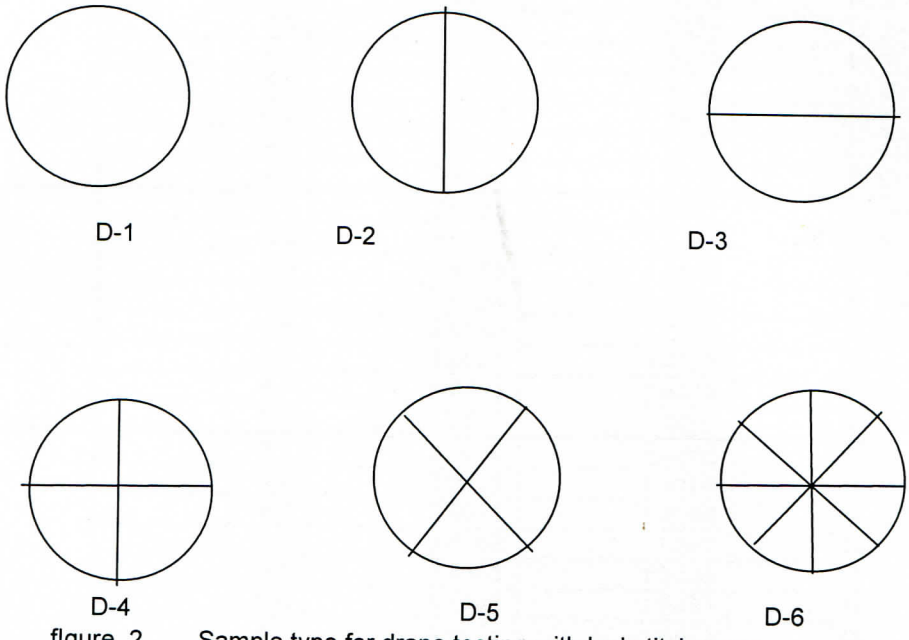

figure 2 Sample type for drape testing with lockstitch seam

Table 2 Draping test results

Seam type	Sample no	Annular paper wt Wt (W_1)	Drape shadow (W_2)	Drape coeff: W_2/W_2 X100
No seam D-1	D-1.1	3.6586	1.4029	38.3453
	D-1.2	3.658	1.3269	36.2739
	D-1.3	3.6874	1.2921	35.0410
	D-1.4	3.6839	1.3196	35.8207
	D-1.5	3.6873	1.352	36.6664
	D-1.6	3.6739	1.2931	35.1969
	D-1.7	3.6617	1.2558	34.2955
	D-1.8	3.6792	1.2846	34.9152
seam in warp dir. D-2	D-2.1	3.6516	1.3388	36.6634
	D-2.2	3.6849	1.3985	37.9522
	D-2.3	3.6322	1.4167	39.0039
	D-2.4	3.6734	1.3013	35.4249
	D-2.5	3.6566	1.3893	37.9943
	D-2.6	3.6714	1.5198	41.3957
	D-2.7	3.6878	1.4856	40.2842
	D-2.8	3.693	1.4562	39.4314
seam in weft dir. D-3	D-3.1	3.6242	1.2933	35.6851
	D-3.2	3.6416	1.3958	38.3293
	D-3.3	3.6693	1.4058	38.3125
	D-3.4	3.669	1.6028	43.6849
	D-3.5	3.6515	1.6196	44.3544
	D-3.6	3.6946	1.2897	34.9077
	D-3.7	3.6878	1.2931	35.0643
	D-3.8	3.659	1.339	36.5947

seams in warp& weft D-4	4.1	3.6896	1.7524	47.4957
	4.2	3.6988	1.6306	44.0846
	4.3	3.6494	1.5435	42.2946
	4.4	3.7307	1.6442	44.0722
	4.5	3.7048	1.5116	40.8011
	4.6	3.6343	1.4626	40.2443
	4.7	3.6846	1.553	42.1484
	4.8	3.6451	1.5518	42.5722
seams in 45° & -45° with warp D-5	5.1	3.6495	1.2831	35.1582
	5.2	3.6816	1.3011	35.3406
	5.3	3.6669	1.3569	37.0040
	5.4	3.6794	1.3801	37.5088
	5.5	3.6995	1.382	37.3564
	5.6	3.6622	1.4123	38.5643
	5.7	**3.6493**	**1.4018**	**38.4128**
	5.8	3.657	1.3006	35.5647
seams in 0°, 90°, 45° & -45° with warp D-6	6.1	3.6638	1.4535	39.6719
	6.2	3.6484	1.4705	40.3053
	6.3	3.6691	1.4063	38.3282
	6.4	3.7169	1.657	44.5802
	6.5	3.6848	1.7538	47.5955
	6.6	3.6743	1.6491	44.8820
	6.7	3.6671	1.6435	44.8174
	6.8	3.6728	1.4727	40.0975

Table 3 Node angle data

Seam type/ seam ang		Node amplituse (cm ngle with warp direction										Min Amplitude	
		1	2	3	4	5	6	7	8	9	10		
1. 1	No seam	13.1	12.8	13.6	13.7	13.5	13.4	12.7	**14.1**			9	
		63	78	42	0	-61	-72	-41	**-9**			33	
1.2		12.9	**13.8**	13.4	12.7	12.8	12.6	12.7	12.8	13.4		9.3	
		17	**57**	55	22	-9	-45	-82	-45	-10		-71	
1.3		12.4	12.5	12.4	12.8	13.3	12.8	**13.5**	12.2	13.2	13.1	9.5	
		3	27	56	88	42	11	**-28**	-57	-88	-30	64	
1.4		13.1	12.7	13.1	13.2	12.7	12.9	**13.3**	13.1	13.1		9	
		43	84	59	21	-4	-35	**-87**	-50	-1		-61	
1.5		13.5	13.2	13.4	13.3	13.4	13.5	**13.6**				9.2	
		38	66	23	-12	-65	-52	**-5**				-85	
1.6		12.8	12.5	12.8	**13.6**	13.4	12.4	13.1	13.4	13.1		9.5	
		0	31	73	**54**	0	-41	-78	-55	-38		52	
1.7		12.7	12.7	12.5	**13.4**	**13.4**	12.6	13	13.3	13.1		9	
		30	65	68	**20**	**-7**	-38	-77	-42	-2		-69	
1.8		12.8	12.8	12.5	13	12.6	13	13.1	**13.8**	13.5		9.3	
		1	38	81	53	19	-5	-27	**-81**	-36		-59	
2.1	warp dir	13.2	12.7	12.7	13.2	**13.6**	13.1	**13.6**	13.4			9	
	seam	5	42	86	51	**14**	-24	**-89**	-36			-51	
2.2	angle -0	13.5	12.6	13	**13.7**	13.5	12.7	12.8	**13.7**			9.2	
		37	82	62	**-2**	-51	-78	-43	**-8**			71	
2.3		13.1	13	**13.6**	13.5	13	12.8	13.4	13.4			9.4	
		38	83	**44**	11	-23	-80	-43	-2			-74	
2.4		13.6	12.3	13.1	13.4	13.6	**13.8**	13.7				9.5	
		6	33	82	46	-12	**-74**	-47				53	

2.5		13.4	13.2	12.9	13.3	**13.8**	13	13	13.3			9	
		2	43	89	51	**12**	-44	-76	-33			-71	
2.6		13.5	12.9	13.9	**14**	12.7	12.6	13.1	13.3			9.3	
		36	85	50	**-9**	-71	-74	-38	-6			-44	
2.7		13.4	12.5	12.6	13.4	**13.5**	13.4	13	13.3	13.3		9.9	9.9
			55	85	35	**-2**	-25	-77	-50	-8		77	-75
2.8		13.3	12.7	12.9	13.1	**13.7**	13.1	13.1	13.4	13.6		9.5	
		47	83	57	20	**3**	-34	-76	-51	-14		70	
3.1	weft dir	13.2	13.5	13.3	13.1	13.1	13.3	**13.5**	13.2			9.5	
	seam	33	86	25	-6	-31	-86	**-44**	-13			65	
3.2	angle 90º	13.3	13.4	13.5	12.9	12.5	13.3	**13.7**	13.2			9.2	
		11	58	87	37	9	-25	**-76**	-39			63	
3.3		12.7	13.2	13.1	13.6	13.2	12.9	13.6	**14**			9	
		44	85	48	14	-33	-90	-65	**-3**			-58	
3.4		13.2	12.8	12.8	13.4	13.4	13.3	13.2	**13.8**	13.2		10.1	
		20	58	88	37	0	-51	-83	**-47**	-14		34	
3.5		13.3	13.1	13.1	13.4	13.3	13.3	13.4	13.5	**13.7**		10.2	10.2
		6	42	85	39	0	-37	-82	-52	**-11**		62	-62
3.6		13	13.1	12.7	12.9	13.1	**13.8**	12.3	13.3			9.2	
		35	83	39	9	-30	**-90**	-35	-11			59	
3.7		13.4	13.7	13.5	**13.8**	13.1	12.8	13.5				9	
		16	90	28	**-30**	-86	-42	-13				49	
3.8		**13.9**	13.6	13.8	12.8	13	13.4	13.2				9	
		34	85	37	6	-26	-84	-30				-55	

4.1	warp &	13.6	12.9	12.8	13.6	**14.1**	13.5	13.2	14.1			10.4	
	weft seam	6	49	90	37	**-4**	-48	-65	-53			23	
4.2	angle 0 &	13.1	13.1	13.3	13.5	13.7	12.9	14	**14.4**			9.5	
	90º	25	61	84	38	-3	-57	-78	**-16**			-29	
4.3		12.9	13.5	13.5	13.6	13	13	13.9	**14.2**			94	
		39	80	38	6	-38	-84	-33	**-15**			64	
4.4		13.3	13.1	13.5	13.7	13.2	**14.3**	14				9.8	
		33	83	40	-14	-62	**-55**	-5				58	
4.5		13.2	12.3	13.2	13.1	13.1	**13.6**	12.8	12.6	13.4	13.2	10.1	
		27	59	82	48	21	**0**	-40	-82	-48	-3	-71	
4.6		13.5	13.2	13.3	12.6	**13.6**	13.2	12.6	13.4	13.3		9.2	
		0	46	79	30	**5**	-25	-60	-77	-27		73	
4.7		13.8	13.3	13.5	**13.6**	**13.6**	12.7	12.7	12.5	13.2		9.5	
		7	32	84	**29**	**-1**	-63	-82	-50	-25		61	
4.8		13.5	13.4	13.4	13.4	13.5	12.7	13.4	**13.7**			9.2	
		44	95	39	-5	-32	-85	-49	**-7**			-64	

5.1	Bias seam	13	12.9	13.2	13.3	**13.4**	12.9	13.1	13			9.3	
	45º & -45º	36	87	36	4	**-57**	-72	-34	-4			65	
5.2	with warp c	12.5	12.8	13.1	**13.6**	12.7	13.1	13.3	13.5			9.1	
		44	82	39	**-15**	-54	-95	-46	-3			68	
5.3		**13.5**	13.2	13.1	13	12.8	13.2	12.1	13.3			9.6	
		8	50	80	40	7	-30	-82	-52			74	
5.4		13	12	12.6	13	13.4	12.9	13	13.2	**13.5**		10	
		42	76	69	32	-12	-46	-80	-55	**-7**		18	

5.5		13.6	13.2	13.2	13.2	13.3	12.6	12.9	**13.7**			9.4	
		10	54	80	42	-5	-37	-70	**-49**			-80	
5.6		13.2	13.1	13.2	13.2	12.8	13.2	13.4	**13.6**			9.6	
		51	79	31	-5	-37	-75	-52	**-5**			75	
5.7		13.3	13	**13.5**	13.3	13.5	12.7	12.7	13.1	13.1		9.5	
		5	43	**77**	46	5	-17	-46	-86	-32		72	
5.8		12.2	12.9	12.9	13	**13.5**	13.4	12.8	13.2	12.8		9.3	
		10	31	82	42	**10**	-46	-88	-52	-15		55	
6.1	warp, weft,	13	12.8	**14.2**	13.3	13.3	13.7	12.8	13.3			9.2	
	bias seam	53	87	**73**	8	-42	-87	-49	-1			-32	
6.2	0, 90º , 45º	13.4	13.2	13.3	**14.1**	12.9	13.3	13.1	13.7			9.6	9.6
	& -45º	22	79	64	**0**	-39	-82	-53	-4			54	32
6.3	with warp	13.3	13.1	13	13	**13.6**	13.1	13.1	13.1			10	
	dir	4	45	87	40	**-5**	-47	-83	-37			66	
6.4		**14**	13	13.9	**14**	13.3	13	13.2	13.4			10.4	
		10	49	84	**15**	-6	-42	-84	-50			-70	
6.5		14	12.8	13.2	13.5	13.6	**14.4**	13.2	13.1	13.2		10.1	
		10	28	56	89	36	**13**	-33	-84	-33		62	
6.6		12.7	13.4	13	12.6	13.4	12.7	13.5	13.6	**13.7**		9.4	
		36	75	42	11	-18	-48	-89	-48	**-6**		65	
6.7		13.5	12.3	13.4	**13.6**	13.5	**13.6**	12.1	13.2	**13.6**		10.2	
		0	27	54	**89**	33	**-7**	-52	-80	**-30**		-59	
6.8		**13.5**	12.8	12.7	12.8	**13.5**	**13.5**	13.2	**13.5**			9.8	
		13	56	86	47	**11**	**-34**	-90	**-28**			65	

APPENDIX ii -STATISTICAL EVALUATION TABLES

Table 01: Multiple Comparisons of Drape coefficient according to the sample group

Dependent Variable: DRAPE COEFFICIENT

	(I) GROUP	(J) GROUP	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tukey HSD	1.00	2.00	-2.6963	1.24750	.277	-6.4204	1.0279
		3.00	-2.5450	1.24750	.338	-6.2691	1.1791
		4.00	-7.1438(*)	1.24750	.000	-10.8679	-3.4196
		5.00	-1.0425	1.24750	.959	-4.7666	2.6816
		6.00	-6.7150(*)	1.24750	.000	-10.4391	-2.9909
	2.00	1.00	2.6963	1.24750	.277	-1.0279	6.4204
		3.00	.1513	1.24750	1.000	-3.5729	3.8754
		4.00	-4.4475(*)	1.24750	.011	-8.1716	-.7234
		5.00	1.6538	1.24750	.769	-2.0704	5.3779
		6.00	-4.0187(*)	1.24750	.028	-7.7429	-.2946
	3.00	1.00	2.5450	1.24750	.338	-1.1791	6.2691
		2.00	-.1513	1.24750	1.000	-3.8754	3.5729
		4.00	-4.5987(*)	1.24750	.008	-8.3229	-.8746
		5.00	1.5025	1.24750	.832	-2.2216	5.2266
		6.00	-4.1700(*)	1.24750	.020	-7.8941	-.4459
	4.00	1.00	7.1438(*)	1.24750	.000	3.4196	10.8679
		2.00	4.4475(*)	1.24750	.011	.7234	8.1716
		3.00	4.5987(*)	1.24750	.008	.8746	8.3229
		5.00	6.1012(*)	1.24750	.000	2.3771	9.8254
		6.00	.4287	1.24750	.999	-3.2954	4.1529
	5.00	1.00	1.0425	1.24750	.959	-2.6816	4.7666
		2.00	-1.6538	1.24750	.769	-5.3779	2.0704
		3.00	-1.5025	1.24750	.832	-5.2266	2.2216
		4.00	-6.1012(*)	1.24750	.000	-9.8254	-2.3771
		6.00	-5.6725(*)	1.24750	.001	-9.3966	-1.9484
	6.00	1.00	6.7150(*)	1.24750	.000	2.9909	10.4391
		2.00	4.0187(*)	1.24750	.028	.2946	7.7429
		3.00	4.1700(*)	1.24750	.020	.4459	7.8941
		4.00	-.4287	1.24750	.999	-4.1529	3.2954
		5.00	5.6725(*)	1.24750	.001	1.9484	9.3966
LSD	1.00	2.00	-2.6963(*)	1.24750	.036	-5.2138	-.1787
		3.00	-2.5450(*)	1.24750	.048	-5.0626	-.0274
		4.00	-7.1438(*)	1.24750	.000	-9.6613	-4.6262
		5.00	-1.0425	1.24750	.408	-3.5601	1.4751
		6.00	-6.7150(*)	1.24750	.000	-9.2326	-4.1974

2.00	1.00	2.6963(*)	1.24750	.036	.1787	5.2138
	3.00	.1513	1.24750	.904	-2.3663	2.6688
	4.00	-4.4475(*)	1.24750	.001	-6.9651	-1.9299
	5.00	1.6538	1.24750	.192	-.8638	4.1713
	6.00	-4.0187(*)	1.24750	.002	-6.5363	-1.5012
3.00	1.00	2.5450(*)	1.24750	.048	.0274	5.0626
	2.00	-.1513	1.24750	.904	-2.6688	2.3663
	4.00	-4.5987(*)	1.24750	.001	-7.1163	-2.0812
	5.00	1.5025	1.24750	.235	-1.0151	4.0201
	6.00	-4.1700(*)	1.24750	.002	-6.6876	-1.6524
4.00	1.00	7.1438(*)	1.24750	.000	4.6262	9.6613
	2.00	4.4475(*)	1.24750	.001	1.9299	6.9651
	3.00	4.5987(*)	1.24750	.001	2.0812	7.1163
	5.00	6.1012(*)	1.24750	.000	3.5837	8.6188
	6.00	.4287	1.24750	.733	-2.0888	2.9463
5.00	1.00	1.0425	1.24750	.408	-1.4751	3.5601
	2.00	-1.6538	1.24750	.192	-4.1713	.8638
	3.00	-1.5025	1.24750	.235	-4.0201	1.0151
	4.00	-6.1012(*)	1.24750	.000	-8.6188	-3.5837
	6.00	-5.6725(*)	1.24750	.000	-8.1901	-3.1549
6.00	1.00	6.7150(*)	1.24750	.000	4.1974	9.2326
	2.00	4.0187(*)	1.24750	.002	1.5012	6.5363
	3.00	4.1700(*)	1.24750	.002	1.6524	6.6876
	4.00	-.4287	1.24750	.733	-2.9463	2.0888
	5.00	5.6725(*)	1.24750	.000	3.1549	8.1901

* The mean difference is significant at the .05 level.

Table 02 Descriptive of node amplitude

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
MAXAMPL	1.00	8	13.6375	.25600	.09051	13.4235	13.8515	13.30	14.10
	2.00	8	13.7125	.15526	.05489	13.5827	13.8423	13.50	14.00
	3.00	8	13.7750	.14880	.05261	13.6506	13.8994	13.50	14.00
	4.00	8	13.9375	.34615	.12238	13.6481	14.2269	13.60	14.40
	5.00	8	13.5375	.09161	.03239	13.4609	13.6141	13.40	13.70
	6.00	13	13.7538	.30988	.08595	13.5666	13.9411	13.50	14.40
	Total	53	13.7283	.26193	.03598	13.6561	13.8005	13.30	14.40

X

APPENDIX iii - PHYSICAL PROPERTIES OF WOVEN FABRICS

Table 01 Physic properties of woven fabric

Structure	Fabric name	Content	Weight	Thickness	Drapeability
Plain	Voile	100% cotton	Light	Thin	Medium
	Gouse	Natural fibre-flax, linen, jute & ramie			Medium-low
	Georgette	silk		Thin	Medium
	Searsucker	Natural polymer; viscose, model, cupra		Thin	High-medium
	Chiffon crinkil finish	Synthetic polymer: polyester		Thin	High-medium
	Gouse	Wool, hair		Thin	medium
Plain	Lawn	100% cotton	Light-medium	Thin	Medium
	Slub	Natural fibre-flax, linen, jute, & ramie		Thin	Low
	Slub-gause	58% linen, 42% silk		Thin-medium	Medium-low
	Slub-stipe	80% ramie, 20% silk		Thin	Medium-low
	Spaced lane weave	Acetate, siacetate, triacetate		Thin-medium	Medium-low
	Faille	Acetate, siacetate, triacetate		Thin	Low
	Plain weave	Natural polymer lyecell		Thin-medium	Low
	Plain weave raised finsh	Natural polymer lyecell		Thin-medium	High-medium
	Gause	Synthetic polymer; nylon		Thin	Low
	Tactel	Synthetic polymer; nylon		Thin	Medium
	Peach skin micro fibre	Synthetic polymer; polyester		Thin-medium	High

Structure	Fabric name	Content	Weight	Thickness	Drapeability
Plain	Twist	60% acrylic 40% acetate	Light-medium	Thin-medium	Medium
	Stripe weave	acylic		Thin	Low
	Fine worsted	Wool, hair		Thin	Medium
	Flocket georgette	80% viscose, 20% polyester		Thin-medium	High-medium
	Plain weave	50% acetate. 50% viscose		Thin	High
	Shirting	50% polyester 50% cotton		Thin	Medium
Plain	Slub peason	100% cotton	Medium	Thin-medium	Low
	Creased finish	Natural fibre- flax, linen, jute & ramie		Thin-medium	Medium-low
	Slub/spun bourette	silk		Thin-medium	Medium
	Crinkled finish	80% linen 20% cotton		Thin-medium	High-medium
	Velvet	Natural polymer; viscose, modal, cupro		Medium	High-medium
	Woven-cloque	Acetate, diacetate, triacetate		Medium	Medium-low
	Bedford cord	Nylon		Thin	Low
	Crinkled georgette	Polyester		Thin	Medium
Plain	Canvas	Natural fibre; flax, linen, jute & ramie	Medium - heavy	Medium	Low
	Tweed	Silk		Medium	Medium-low
	Knop	60% silk, 40%cotton		Medium	Medium
	Heat set crushed velvet	Acetate, diacetate, triacetate		Medium	Medium
	Cordura	Synthetic polymer;		Medium	Low

		nylon			
Structure	**Fabric name**	**Content**	**Weight**	**Thickness**	**Drapeability**
Plain	Heat set crushed velvet	65% viscose, 35% acetate	Medium - heavy	Medium	Medium-low
Plain	Slub bark weave	100% cotton	Heavy	Medium-thick	Medium-low
Twill	Twill	55% wool, 45% polyester	Light-medium	Thin	High-medium
Twill	Denim	100% cotton	Medium	Thin-medium	Low
	Twill suiting	Natural fibre; flax, linen, jute, ramie		Thin-medium	Low
	Twill	Natural polymer lycell		Thin	High-medium
Twill	Block weave	100% cotton	Medium-heavy	Thin-medium	Low
	Denim	80% cotton 20% lycell		Thin-medium	Medium-low
	Twill suiting	Polyester		Thin-medium	Medium-low
Satin	Sandwashed satin	Silk	Light-medium	Thin	High
Satin	Satin strip crinkle	Acetate, diacetate, triacetate	Medium	Thin-medium	High-medium
	Satin	50% acetate 50% viscose		Medium	Medium
Satin	Satin	Silk	Medium-heavy	Thin-medium	Medium-low

Table 02 Weight classification

Name	**Weight**
Light	0-0.79.9gsm
Light-medium	80-179.9gsm
Medium	180-299.9gsm
Medium- heavy	300-449.9gsm
Heavy	450gsm+

Table 03 Thickness classification

Name	**Thickness**
Thin	0-0.49mm
Thin-medium	0.5-0.99mm
Medium	1.0-2.49mm

Reference

Aldrich Winfred, (1996), *Fabric form and flat pattern making,* Black well publishing company, UK, pp 20-62