

LAMPIRAN

Lampiran 1 Kain hasil penyempurnaan poliester - rayon menggunakan zat pelembut tahan luntur warna terhadap pencucian.

Konsentrasi	Kain Hasil Pengujian
9	
11	
13	
15	

Lampiran 2 Kain hasil penyempurnaan poliester - rayon menggunakan zat pelembut terhadap tahan luntur warna terhadap gosok.

Konsentrasi	Kain Hasil Pengujian	
	Kering	Basah
9		
11		
13		
15		

Lampiran 3 Data hasil pengujian penyempurnaan poliester - rayon menggunakan zat pelembut terhadap ketuan warna.

Name	K/S(400)	K/S(410)	K/S(420)	K/S(430)	K/S(440)	K/S(450)	K/S(460)	K/S(470)	K/S(480)	K/S(490)	K/S(500)	K/S(510)	K/S(520)	K/S(530)	K/S(540)	K/S(550)	K/S(560)	K/S(570)	K/S(580)	K/S(590)	K/S(600)	K/S(610)	K/S(620)	K/S(630)	K/S(640)	K/S(650)	K/S(660)	K/S(670)	K/S(680)	K/S(690)	K/S(700)	W/(CIE)J/S
Standard	6.97	7.16	7.46	8.15	8.62	8.95	9.13	9.31	9.62	9.8	10.06	10.81	12.07	13.59	15.09	16.62	17.88	18.78	19.34	19.59	20.13	19.67	19.26	18.32	16.62	13.68	9.99	6.5	3.85	2.18	1.24	141.26
A 1 8	7.11	7.35	7.71	8.43	8.93	9.27	9.46	9.64	9.96	10.16	10.44	11.19	12.46	14.03	15.52	16.94	18.32	19.17	19.67	19.93	20.02	20.02	19.67	18.85	17.06	14.08	10.31	6.72	3.99	2.25	1.29	139.32
A 2 8	7.07	7.31	7.66	8.39	8.89	9.21	9.42	9.59	9.89	10.11	10.36	11.13	12.39	13.99	15.46	16.94	18.24	19.09	19.59	19.85	20.3	20.02	19.67	18.78	17	14.03	10.26	6.64	3.94	2.22	1.27	139.61
A 3 8	6.89	7.15	7.48	8.17	8.64	8.97	9.17	9.33	9.64	9.82	10.08	10.81	12.04	13.55	14.99	16.44	17.67	18.54	19.01	19.34	20.22	19.42	19.09	18.24	16.5	13.68	10.04	6.55	3.91	2.22	1.27	138.94
A 4 8	7.07	7.28	7.62	8.32	8.79	9.13	9.31	9.48	9.82	9.99	10.23	10.98	12.25	13.81	15.25	16.74	18.02	18.93	19.34	19.67	20.27	19.76	19.42	18.54	16.81	13.77	10.06	6.54	3.89	2.2	1.26	139.01
A 5 8	6.96	7.19	7.53	8.24	8.7	9.01	9.19	9.35	9.68	9.87	10.11	10.87	12.07	13.59	15.09	16.5	17.74	18.62	19.09	19.34	20.15	19.42	19.17	18.32	16.62	13.68	9.99	6.52	3.89	2.21	1.26	138.59
	7.02	7.256	7.6	8.31	8.79	9.118	9.31	9.478	9.798	9.99	10.244	10.996	12.242	13.794	15.262	16.712	17.998	18.87	19.34	19.626	20.192	19.728	19.404	18.546	16.798	13.848	10.132	6.594	3.924	2.22	1.27	
A 1 10	7.79	8.09	8.48	9.27	9.87	10.23	10.44	10.65	10.98	11.19	11.49	12.28	13.64	15.3	16.81	17.32	18.59	19.38	19.5	19.72	20.12	19.76	19.72	19.5	18.17	15.25	11.34	7.39	4.36	2.44	1.38	133.92
A 2 10	7.71	7.97	8.36	9.17	9.73	10.08	10.31	10.52	10.81	11.01	11.31	12.11	13.43	15.04	16.56	17.95	18.26	19.02	19.12	19.32	20.29	19.5	19.32	19.12	17.88	15.04	11.16	7.31	4.33	2.43	1.38	133.01
A 3 10	7.74	8	8.39	9.19	9.73	10.08	10.28	10.49	10.84	11.04	11.31	12.14	13.51	15.14	16.68	17.17	19.42	19.2	19.35	19.53	20.17	19.76	19.53	19.35	18.02	15.09	11.19	7.29	4.29	2.4	1.36	134.94
A 4 10	7.85	8.13	8.53	9.35	9.92	10.28	10.52	10.7	11.04	11.25	11.52	12.35	13.68	15.36	16.94	17.39	18.67	19.47	19.5	19.62	20.25	19.93	19.62	19.5	18.24	15.36	11.37	7.41	4.38	2.45	1.39	133.67
A 5 10	7.71	8	8.41	9.21	9.75	10.13	10.31	10.52	10.87	11.04	11.34	12.11	13.47	15.04	16.56	17.02	18.34	19.02	19.12	19.22	20.19	19.5	19.22	19.12	17.88	15.04	11.19	7.32	4.33	2.43	1.38	132.47
	7.76	8.038	8.434	9.238	9.8	10.16	10.372	10.576	10.908	11.106	11.394	12.198	13.546	15.176	16.71	17.37	18.656	19.218	19.318	19.482	20.204	19.69	19.482	19.318	18.038	15.156	11.25	7.344	4.338	2.43	1.378	
A 1 13	6.99	7.2	7.52	8.22	8.7	8.99	9.17	9.35	9.66	9.85	10.08	10.84	12.07	13.59	15.04	16.44	17.74	18.62	19.09	19.34	20.5	19.42	19.09	18.24	16.5	13.59	9.96	6.52	3.9	2.22	1.27	138.56
A 2 13	6.91	7.15	7.5	8.2	8.72	9.04	9.23	9.44	9.75	9.94	10.21	10.95	12.21	13.72	15.14	16.56	17.74	18.54	18.93	19.09	20.26	19.09	18.7	17.88	16.38	13.59	10.11	6.64	3.96	2.23	1.26	137.88
A 3 13	7.04	7.27	7.62	8.32	8.81	9.15	9.33	9.51	9.85	10.01	10.28	11.04	12.32	13.9	15.41	16.87	18.24	19.17	19.59	19.85	20.33	19.93	19.59	18.62	16.87	13.94	10.18	6.62	3.92	2.21	1.26	140.6
A 4 13	6.84	7.08	7.42	8.12	8.62	8.93	9.13	9.29	9.62	9.78	10.06	10.79	12.01	13.55	14.99	16.32	17.53	18.32	18.78	18.85	20.01	18.93	18.62	17.74	16.2	13.47	9.94	6.5	3.84	2.16	1.23	137.68
A 5 13	6.87	7.13	7.46	8.15	8.64	8.99	9.17	9.35	9.68	9.85	10.11	10.84	12.07	13.55	14.94	16.32	17.46	18.17	18.62	18.78	20.03	18.78	18.32	17.6	16.08	13.43	9.99	6.57	3.92	2.2	1.25	135.93
	6.93	7.166	7.504	8.202	8.698	9.02	9.206	9.388	9.712	9.886	10.148	10.892	12.136	13.662	15.104	16.502	17.742	18.564	19.002	19.182	20.226	19.23	18.864	18.016	16.406	13.604	10.036	6.57	3.908	2.204	1.254	
A 1 15	7.92	8.18	8.59	9.38	9.94	10.31	10.49	10.68	11.04	11.25	11.52	12.32	13.68	15.3	16.81	17.12	17.22	17.55	18.12	19.43	20.27	20.14	20.22	19.76	18.1	15.2	11.31	7.39	4.36	2.45	1.4	131.96
A 2 15	7.66	7.92	8.3	9.09	9.62	9.96	10.18	10.36	10.7	10.9	11.19	11.97	13.3	14.94	16.44	17.16	17.33	17.63	18.22	19.07	20.22	19.76	20.29	19.5	17.81	14.89	10.98	7.16	4.23	2.37	1.35	134.58
A 3 15	7.68	7.94	8.32	9.11	9.66	10.04	10.23	10.41	10.76	10.95	11.25	12.04	13.43	14.99	16.5	17.22	17.4	17.47	18.09	19.58	20.32	20.75	19.19	19.5	17.95	14.99	11.07	7.21	4.25	2.38	1.35	134.39
A 4 15	7.62	7.91	8.3	9.11	9.64	10.01	10.23	10.41	10.76	10.95	11.25	12.04	13.43	15.04	16.62	17.03	17.31	17.37	18.28	19.49	20.15	20.18	20.29	19.67	17.95	15.04	11.13	7.24	4.26	2.39	1.36	135.94
A 5 15	7.62	7.89	8.29	9.07	9.62	9.96	10.18	10.36	10.7	10.9	11.19	11.97	13.3	14.99	16.5	17.05	17.29	17.66	18.32	19.64	20.29	20.15	20.1	19.59	17.88	14.94	11.04	7.2	4.25	2.39	1.36	135.41
	7.7	7.968	8.36	9.152	9.696	10.056	10.262	10.444	10.792	10.99	11.28	12.068	13.428	15.052	16.574	17.116	17.31	17.536	18.206	19.442	20.25	20.196	20.018	19.604	17.938	15.012	11.106	7.24	4.27	2.396	1.364	

Lampiran 4 Data hasil pengujian penyempurnaan poliester - rayon menggunakan zat pelembut terhadap beda warna.

Batch Name	Current Illuminant Name	CIE DL	CIE Da	CIE Db	CIE DC	CIE DH	CIE DE	Strength Difference
Kain setelah di RF	D65 10 Deg	-0.51	0.19	0.96	-0.96	0.18	1.11	103.75
Kain sebelum di RF	D65 10 Deg	-0.14	0.08	0.43	-0.43	0.07	0.46	100.94
REX 9 GR	D65 10 Deg	-0.40	0.20	0.20	-0.20	0.19	0.48	103.03
REX 11 GR	D65 10 Deg	-0.46	0.18	0.37	-0.37	0.18	0.62	103.58
REX 13 GR	D65 10 Deg	-1.06	0.28	0.62	-0.62	0.27	1.26	108.81
REX 15 GR	D65 10 Deg	-1.09	0.30	0.58	-0.59	0.30	1.27	109.09

CIE Lab P/F Determination	CIE DL Description	CIE Da Description	CIE Db Description	CIE DH Description
Fail	darker	more red	more yellow	more red
Pass	darker	more red	more yellow	more red
Pass	darker	more red	more yellow	more red
Pass	darker	more red	more yellow	more red
Fail	darker	more red	more yellow	more red
Fail	darker	more red	more yellow	more red
Pass	darker	more red	more yellow	more red
Pass	darker	more red	more yellow	more red
Warn	darker	more red	more yellow	more red

Lampiran 5 Data hasil pengujian penyempurnaan poliester - rayon menggunakan zat pelembut terhadap kelangsaan.

VARIASI 9 GRAM

NO	NAMA	DEPAN	BELAKANG
1	Jari-jari sample	127	127
2	Jari-jari landasan (A)	63,5	63,5
3	Luas sample (B)	50.670,75	50.670,75
4	Luas landasan (A)	12.468,98	12.468,98
5	Jari-jari rata-rata drape (C)	122,63	125,80
6	Luas drape	47.350,64	49.717,71
7	Drape %	91.31	97.51
	Rata - rata	94.41%	

VARIASI 11 GRAM

NO	NAMA	DEPAN	BELAKANG
1	Jari-jari sample	127	127
2	Jari-jari landasan (A)	63,5	63,5
3	Luas sample (B)	50.670,75	50.670,75
4	Luas landasan (A)	12.468,98	12.468,98
5	Jari-jari rata-rata drape (C)	122,63	125,80
6	Luas drape	48.7770,81	49.717,71
7	Drape %	95,03	97.51
	Rata - rata	96.27 %	

VARIASI 13

NO	NAMA	belakang	depan
1	Jari-jari sample (B)	127	127
2	Jari-jari landasan (A)	63,5	63,5
3	Luas sample (B)	50.670,75	50.670,75
4	Luas landasan (A)	12.468,98	12.468,98
5	Jari-jari rata-rata drape (C)	125.33	126,92
6	Luas drape (C)	49.342,97	50.602,94
7	Drape %	96,52	99.82
	Rata - rata	98.17	

RUMUS:

- VARIASI 13 g/l

$$\% \text{ Drape depan} = \frac{\text{luas drape} - \text{luas landasan}}{\text{luas sample} - \text{luas landasan}} \times 100$$

$$= \frac{50.602,94 - 12.468,98}{50.670,75 - 12.468,98} \times 100 = \frac{38.133,96}{38.201,77} \times 100$$

$$= 99.82 \%$$

$$\% \text{ Drape belakang} = \frac{\text{luas drape} - \text{luas landasan}}{\text{luas sample} - \text{luas landasan}} \times 100$$

$$= \frac{49.342,97 - 12.468,98}{50.670,75 - 12.468,98} \times 100$$

$$= 96.52 \%$$

$$(\text{Depan} + \text{Belakang})/2 = (99.88 + 96.52)/2 = 98.17 \%$$

VARIASI 15 GRAM

NO	NAMA	DEPAN	BELAKANG
1	Jari-jari sample	127	127
2	Jari-jari landasan (A)	63,5	63,5
3	Luas sample (B)	50.670,75	50.670,75
4	Luas landasan (A)	12.468,98	12.468,98
5	Jari-jari rata-rata drape (C)	123,10	130,37
6	Luas drape	47.602,60	53.395,57
7	Drape %	91,97	107.13
	Rata - rata	99.55	

