

Lampiran A Nomor Benang

Nomor benang merupakan suatu ukuran kehalusan atau kekasaran kain dari suatu benang.

Kain A (rayon-akrilik 60:40)

Jumlah Panjang 10 helai lusi setelah diluruskan= 110 cm = 1,10 m

Berat 10 helai lusi = 0,018 gram

$$\text{Tex} = \frac{1000 \times \text{Berat (g)}}{\text{Panjang (m)}}$$

$$\text{Tex} = \frac{1000 \times 0,018 \text{ (g)}}{1,10 \text{ (m)}}$$

Tex = 16,36

Kain B (rayon-akrilik 70:30)

Jumlah Panjang 10 helai lusi setelah diluruskan= 108cm = 1,08 m

Berat 10 helai lusi = 0,018 gram

$$\text{Tex} = \frac{1000 \times 0,018 \text{ (g)}}{1,08 \text{ (m)}}$$

Tex = 16,6

Kain C (rayon-akrilik 40:60)

Jumlah Panjang 10 helai lusi setelah diluruskan= 109cm = 1,09 m

Berat 10 helai lusi = 0,018 gram

$$\text{Tex} = \frac{1000 \times 0,018 \text{ (g)}}{1,09 \text{ (m)}}$$

Tex = 16,5

Kain D (rayon-akrilik 30:70)

Jumlah Panjang 10 helai lusi setelah diluruskan= 107cm = 1,07 m

Berat 10 helai lusi = 0,018 gram

$$\text{Tex} = \frac{1000 \times 0,018 \text{ (g)}}{1,07 \text{ (m)}}$$

Tex = 16,8

Lampiran B Konstruksi Kain

LAPORAN HASIL PENGUJIAN

Contoh/*Sample* : Kain Rajut sebanyak 3 (tiga) sampel
Kondisi/*Condition* : Baik
Diterima tanggal/*Received Date* : 8 September 2023
Dibuat untuk/*Requested by* : PT. KAERU KUSUMAH MANDIRI
Selesai tanggal/*Finis date* : 14 September 2023

No.	Jenis Uji	Metode Uji	Hasil Uji			Ket.
			Akrilik 30 Rayon 70	Akrilik 40 Rayon 60	Akrilik 70 Rayon 30	
1.	Berat kain/ m ² , gram	SNI 08-0274-1999	209,23	227,67	210,17	
2.	Konstruksi : – WPI – CPI – Jenis rajutan	SNI 08-0458-2013	42,00 67,50 Baby Terry	32,00 36,00 Waffle stretch	28,00 27,50 Fleece	
3.	Tebal, mm	SNI ISO 5084:2010	0,680	0,859	0,849	
4.	Daya Tembus Udara, cm ³ /s/cm ²	SNI 7648-2010	22,23	71,25	75,23	



Lampiran C Kerapatan Kain

LAPORAN HASIL PENGUJIAN

Contoh/*Sample* : Kain Rajut sebanyak 3 (tiga) sampel
 Kondisi/*Condition* : Baik
 Diterima tanggal/*Received Date* : 8 September 2023
 Dibuat untuk/*Requested by* : PT. KAERU KUSUMAH MANDIRI
 Selesai tanggal/*Finis date* : 14 September 2023

No.	Jenis Uji	Metode Uji	Hasil Uji			Ket.
			Akrilik 30 Rayon 70	Akrilik 40 Rayon 60	Akrilik 70 Rayon 30	
1.	Berat kain/ m ² , gram	SNI 08-0274-1999	209,23	227,67	210,17	
2.	Konstruksi : – WPI – CPI – Jenis rajutan	SNI 08-0458-2013	42,00 67,50 Baby Terry	32,00 36,00 Waffle stretch	28,00 27,50 Fleece	
3.	Tebal, mm	SNI ISO 5084:2010	0,680	0,859	0,849	
4.	Daya Tembus Udara, cm ³ /s/cm ²	SNI 7648-2010	22,23	71,25	75,23	



Lampiran D Berat Kain

LAPORAN HASIL PENGUJIAN

Contoh/*Sample* : Kain Rajut sebanyak 3 (tiga) sampel
 Kondisi/*Condition* : Baik
 Diterima tanggal/*Received Date* : 8 Septembar 2023
 Dibuat untuk/*Requested by* : PT. KAERU KUSUMAH MANDIRI
 Selesai tanggal/*Finis date* : 14 September 2023

No.	Jenis Uji	Metode Uji	Hasil Uji			Ket.
			Akrilik 30 Rayon 70	Akrilik 40 Rayon 60	Akrilik 70 Rayon 30	
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2.	Konstruksi : – WPI – CPI – Jenis rajutan	SNI 08-0458-2013	42,00 67,50 Baby Terry	32,00 36,00 Waffle stretch	28,00 27,50 Fleece	
3.	Tebal, mm	SNI ISO 5084:2010	0,680	0,859	0,849	
4.	Daya Tembus Udara, cm ³ /s/cm ²	SNI 7648-2010	22,23	71,25	75,23	



Lampiran E Tahan Luntur Warna Kain Terhadap Pencucian

komposisi	Nilai warna	hasil
60:40	3 (cukup)	Penodaan warna setara dengan tingkat ke 3 dalam staining scale
70:30	2 (kurang)	Penodaan warna setara dengan tingkat ke 2 dalam staining scale
40:60	4 (baik)	Penodaan setara dengan tingkat ke 4 ke dalam staining scale
30:70	2 (kurang)	Penodaan warna setara dengan tingkat ke 2 dalam staining scale

Lampiran F Permeabilitas Udara

LAPORAN HASIL PENGUJIAN

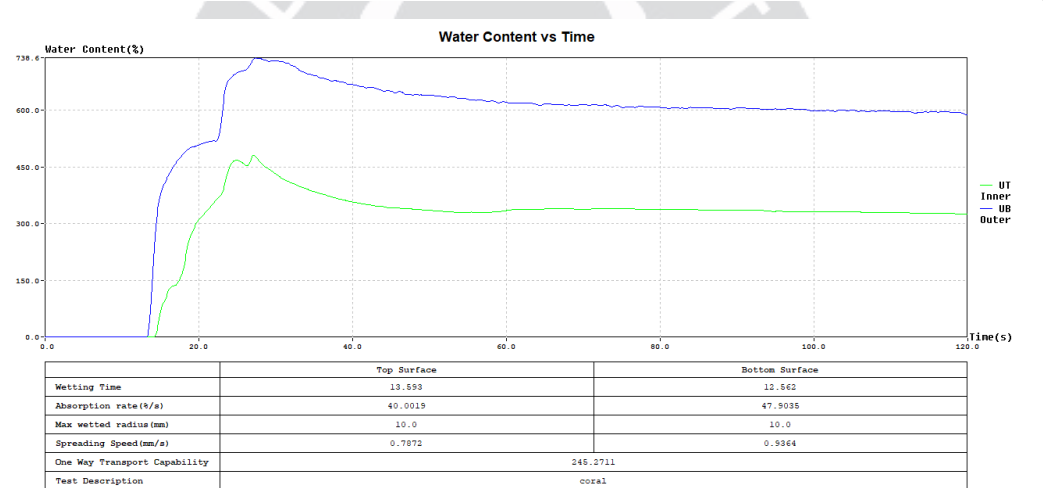
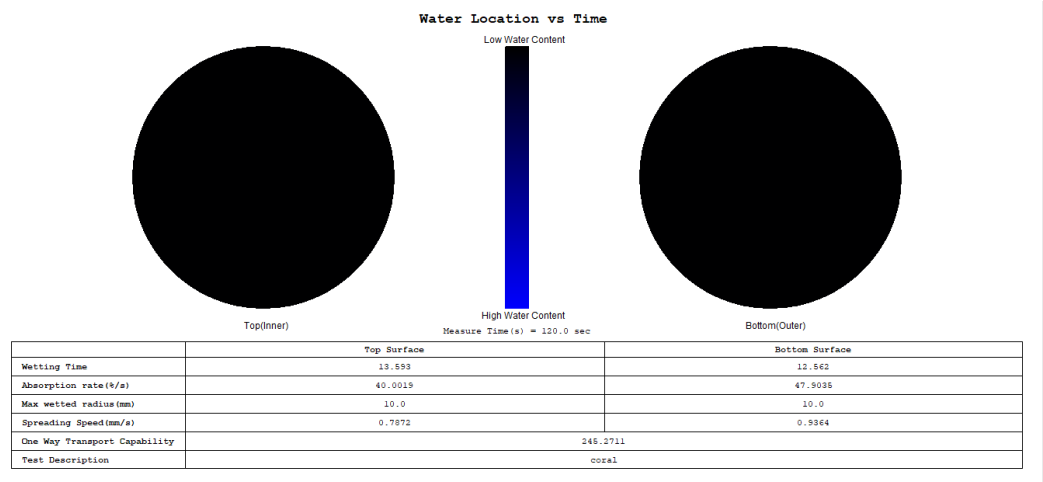
Contoh/*Sample* : Kain Rajut sebanyak 3 (tiga) sampel
 Kondisi/*Condition* : Baik
 Diterima tanggal/*Received Date* : 8 September 2023
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No.	Jenis Uji	Metode Uji	Hasil Uji			Ket.
			Akrilik 30 Rayon 70	Akrilik 40 Rayon 60	Akrilik 70 Rayon 30	
1.	Berat kain/ m ² , gram	SNI 08-0274-1999	209,23	227,67	210,17	
2.	Konstruksi : – WPI – CPI – Jenis rajutan	SNI 08-0458-2013	42,00 67,50 Baby Terry	32,00 36,00 Waffle stretch	28,00 27,50 Fleece	
3.	Tebal, mm	SNI ISO 5084:2010	0,680	0,859	0,849	
4.	Daya Tembus Udara, cm ³ /s/cm ²	SNI 7648-2010	22,23	71,25	75,23	



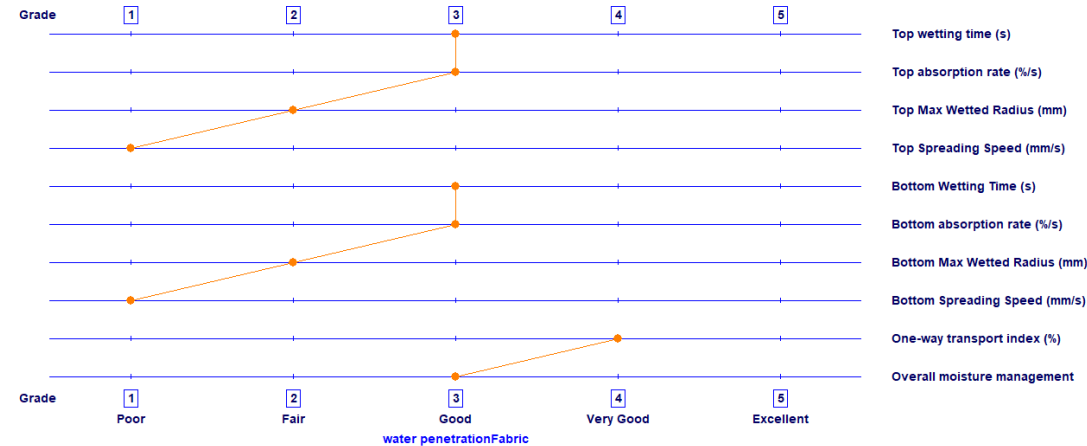
Lampiran G Manajemen Kelembaban Kain

Kain B (70:30)



Finger Print of Moisture Management Properties (AATCC)

(Fabric: SAMPLE 70-30-1)

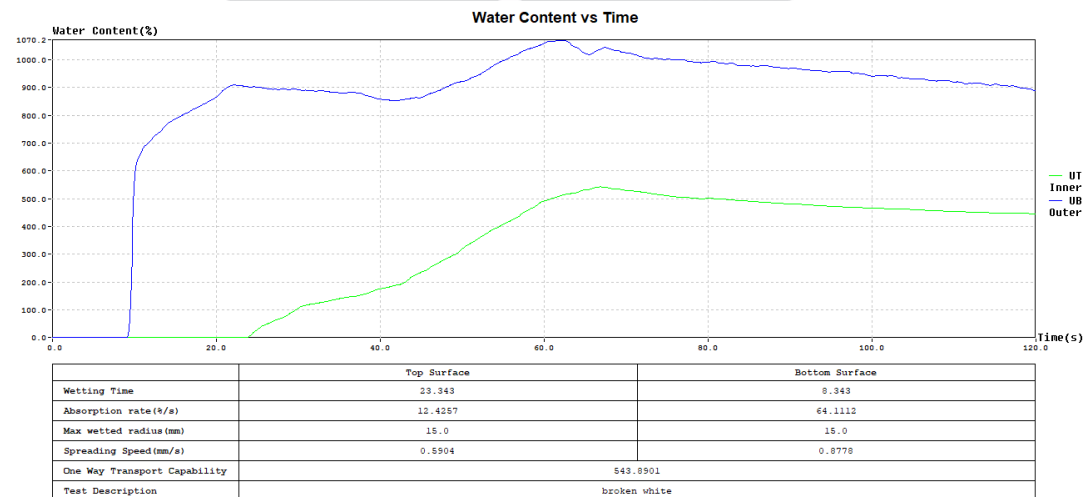
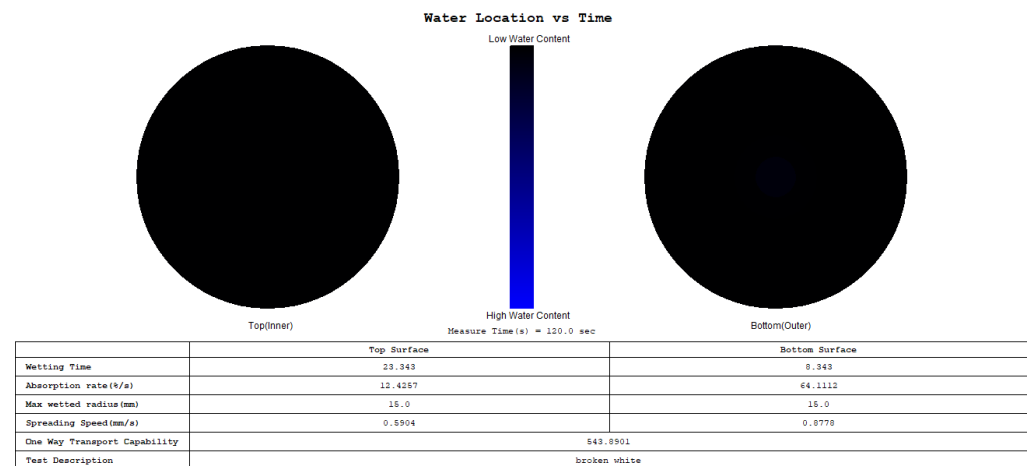


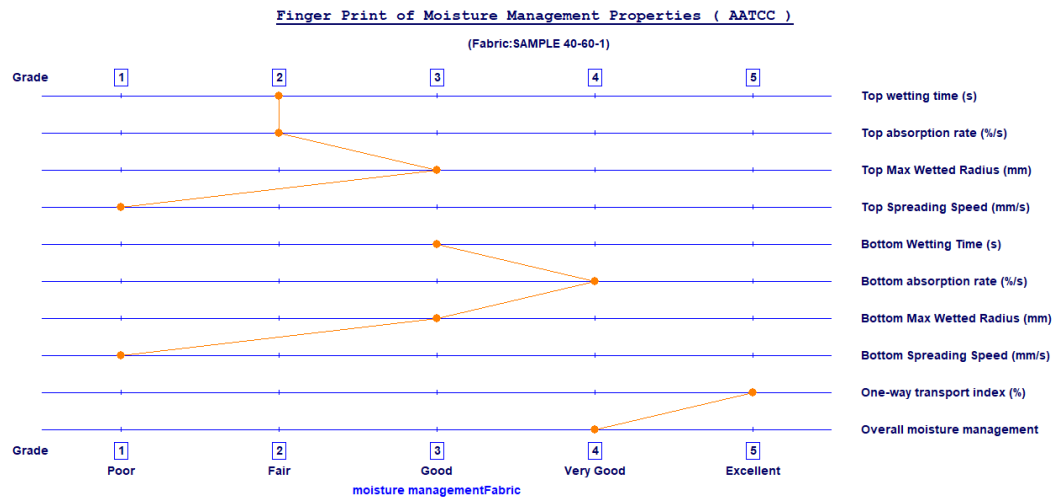
MMTsystem(Connected) ---[E:\Pak Andra MMT\OMMC.mmt]

File Setting Edit Run Check Play Data Report View Language Help

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1		Wetting Time	Wetting Time	Top	Bottom	Top Max	Bottom Max	Top	Bottom	Accumulative				
2		Top(s)	Bottom(s)	Absorption	Absorption	Wetted Radius	Wetted Radius	Spreading Speed	Spreading Speed	One-way transport index (%)	OMMC			
3				Rate(%/s)	Rate(%/s)	(mm)	(mm)	(mm/sec)	(mm/sec)					
4	SAMPLE 70-30-1	13.593	12.562	40.0019	47.9035	10	10	0.7872	0.9364	245.2711	0.4334			
5	Mean	13.593	12.562	40.0019	47.9035	10	10	0.7872	0.9364	245.2711	0.4334			
6	S.Deviation	0	0	0	0	0	0	0	0	0	0			
7	CV	0	0	0	0	0	0	0	0	0	0			
8														

Kain C (40:60)



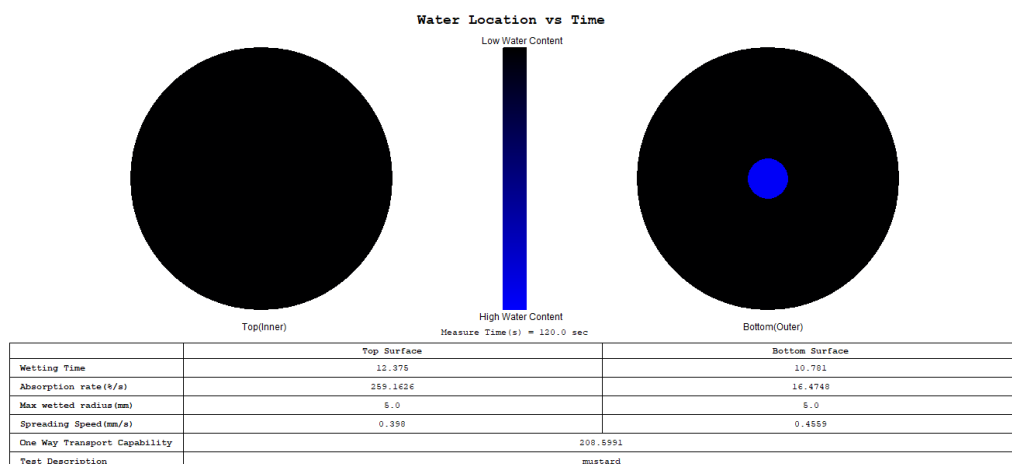


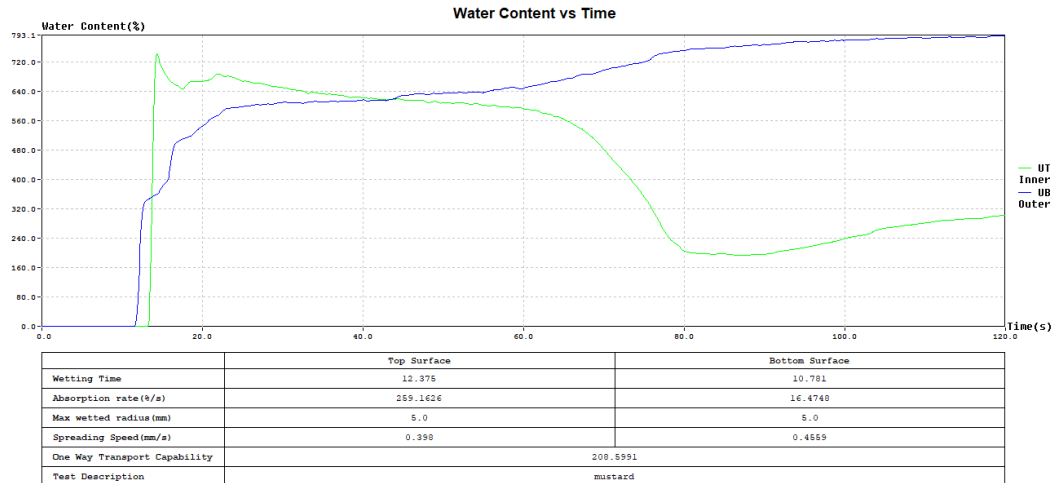
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File Setting Edit Run Check Play Data Report View Language Help

	A	B	C	D	E	F	G	H	I	J	K	L
1		Wetting Time	Wetting Time	Top	Bottom	Top Max	Bottom Max	Top	Bottom	Accumulative		
2		Top(s)	Bottom(s)	Absorption	Absorption	Wetted Radius	Wetted Radius	Spreading Speed	Spreading Speed	One-way transport index (%)	OMMC	
3				Rate(%/s)	Rate(%/s)	(mm)	(mm)	(mm/sec)	(mm/sec)			
4	SAMPLE 40-60-1	23,343	8,343	12,4257	64,1112	15	15	0,5904	0,8778	543,8901	0,6503	
5	Mean	23,343	8,343	12,4257	64,1112	15	15	0,5904	0,8778	543,8901	0,6503	
6	S.Deviation	0	0	0	0	0	0	0	0	0	0	
7	CV	0	0	0	0	0	0	0	0	0	0	
8												

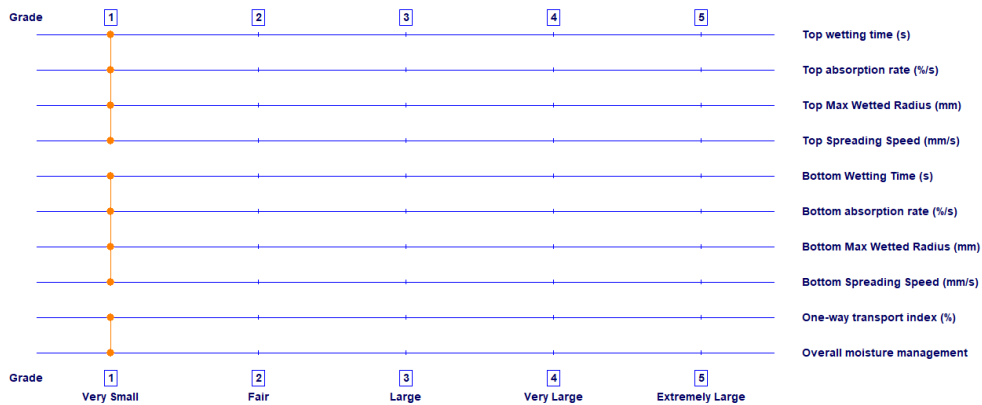
Kain D (30:70)





Finger Print of Variability of Moisture Management Properties (AATCC)

(Fabric:SAMPLE 30-70-1)



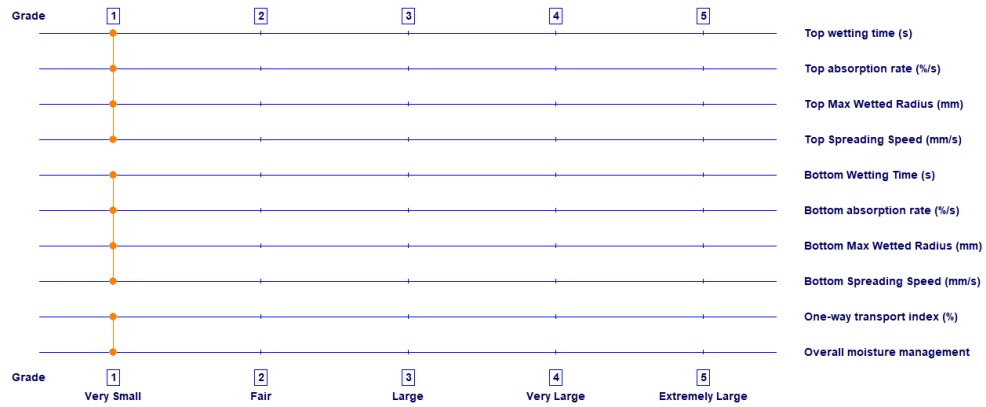
MMTSystem(Connected) ---[E:\Pak Andra MMT\water contern mustard.mmt]

File Setting Edit Run Check Play Data Report View Language Help

	A	B	C	D	E	F	G	H	I	J	K	L	M
		Wetting Time Top(s)	Wetting Time Bottom(s)	Top Absorption Rate(%/s)	Bottom Absorption Rate(%/s)	Top Max Wetted Radius (mm)	Bottom Max Wetted Radius (mm)	Top Spreading Speed (mm/sec)	Bottom Spreading Speed (mm/sec)	Accumulative One-way transport index (%)	OMMC		
4	SAMPLE 30-70-1	12.375	10.781	259.1626	16.4748	5	5	0.398	0.4559	208.5991	0.3053		
5	Mean	12.375	10.781	259.1626	16.4748	5	5	0.398	0.4559	208.5991	0.3053		
6	S.Deviation	0	0	0	0	0	0	0	0	0	0		
7	CV	0	0	0	0	0	0	0	0	0	0		
8													
9													

Finger Print of Variability of Moisture Management Properties (AATCC)

(Fabric:SAMPLE 30-70-1)



Lampiran H Sifat Sentuhan Kain

Kain B (70:30)



Fabric Touch Tester



Company	SDLATLAS				Sample	heat tech				Temperature	22				
Operator	rella				Ref No.	SN : xxxxxxxx				Relative Humidity	65%				
Date	2023				Description	coral									

Index: Sandart : SDLAtlas

Sample	Bending				Compression					Heat Flux			Friction		Roughness				Primary Sensory Indices			
	BARa	BARe	BWa	BWe	T	CW	CRR	CAR	RAR	TCC	TCR	Qmax	SFCa	SFCe	SRAs	SRAs	SRWs	SRWs	Smoothness	Softness	Warmness	Total
	gf/mm ² /rad	gf/mm ² /rad	gf/mm ² /rad	gf/mm ² /rad	mm	gf/mm		gf/(cm ² *mm)		W/mm ² (m ² *C)	W/(m ² *C)	W/(m ² *C)			um		mm					
heat tech1-O	254.90	216.18	953.42	708.66	0.90	1256.57	0.46	216.31	358.90	55.70	55.53	675.27	0.40	0.42	75.91	66.38	3.10	3.71	0.38	0.51	0.78	0.52
heat tech2-I	222.08	230.66	821.78	796.25	0.85	1160.23	0.45	224.37	393.64	53.24	53.53	686.06	0.39	0.36	74.24	40.71	6.40	2.24	0.55	0.49	0.58	0.54
Mean Outer	254.90	216.18	953.42	708.66	0.90	1256.57	0.46	216.31	358.90	55.70	55.53	675.27	0.40	0.42	75.91	66.38	3.10	3.71	0.38	0.51	0.78	0.52
Mean Inner	222.08	230.66	821.78	796.25	0.85	1160.23	0.45	224.37	393.64	53.24	53.53	686.06	0.39	0.36	74.24	40.71	6.40	2.24	0.55	0.49	0.58	0.54
Std. Outer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Inner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV Outer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV Inner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Kain C (40:60)

		Fabric Touch Tester																				
Company	SDLATLAS		Sample	heat tech		Temperature	22															
Operator	RELLA		Ref No.	SN : xxxxxxxxxx		Relative Humidity	65%															
Date	2023		Description			BW																
Index: Sandart : SDLAtlas																						
Sample	Bending				Compression				Heat Flux			Friction		Roughness				Primary Sensory Indices				
	BARa	BARe	BWa	BWe	T	CW	CRR	CAR	RAR	TCC	TCR	Qmax	SFCa	SFCe	SRAs	SRAs	SRWs	SRWs	Smoothness	Softness	Warmness	Total
	gf/mm ² /rad		gf ² /mm ² /rad		mm	gf/mm		gf/(cm ² *mm)		W/mm ² (m ² *C)	W/(m ² *C)	W/(m ² *C)			um		mm					
heat tech1-O	270.45	206.65	750.93	742.41	1.05	1289.76	0.45	210.17	364.49	69.68	71.28	762.62	0.30	0.40	0.00	66.29	0.00	1.65	0.31	0.55	0.78	0.50
heat tech2-I	209.03	264.72	658.14	904.96	1.02	1218.10	0.49	220.10	347.49	69.65	68.28	752.22	0.31	0.36	21.80	82.68	0.83	2.09	0.49	0.43	0.53	0.48
Mean Outer	270.45	206.65	750.93	742.41	1.05	1289.76	0.45	210.17	364.49	69.68	71.28	762.62	0.30	0.40	0.00	66.29	0.00	1.65	0.31	0.55	0.78	0.50
Mean Inner	209.03	264.72	658.14	904.96	1.02	1218.10	0.49	220.10	347.49	69.65	68.28	752.22	0.31	0.36	21.80	82.68	0.83	2.09	0.49	0.43	0.53	0.48
Std Outer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std Inner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV Outer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV Inner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Kain D (30:70)



Fabric Touch Tester



Company	SDLATLAS				Sample	heat tech				22	
Operator	rella				Ref No.	SN : xxxxxxxx				Relative Humidity	
Date	2023				Description	mustard					

Index: Sandart : SDLAtlas

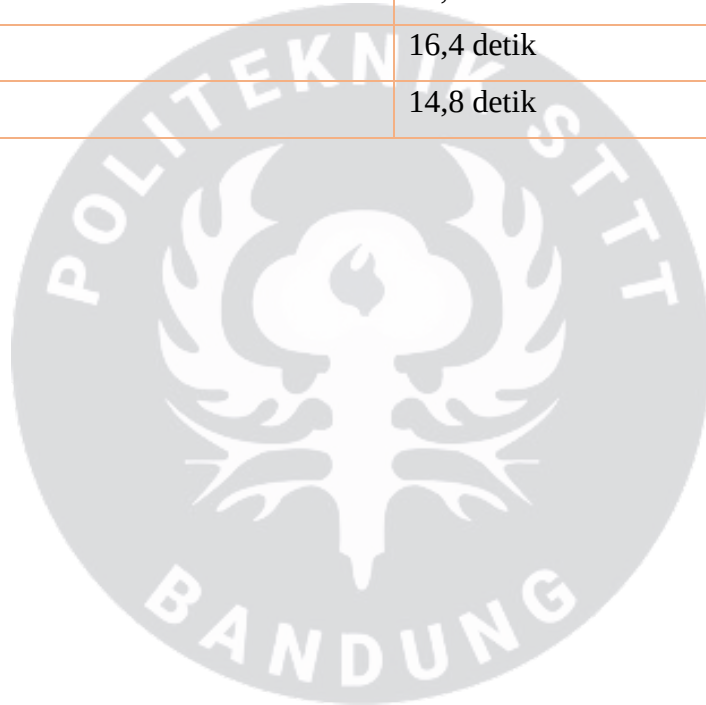
Sample	Bending				Compression					Heat Flux			Friction		Roughness				Primary Sensory Indices			
	BARa	BARe	BWa	BWe	T	CW	CRR	CAR	RAR	TCC	TCR	Qmax	SFCa	SFCe	SRAs	SRAs	SRWs	SRWs	Smoothness	Softness	Warmness	Total
	gf/mm²/rad	gf/mm²/rad	gf/mm²/rad	gf/mm²/rad	mm	gf/mm		gf/(cm²*mm)		W/mm²(m²*C)	W/(m²*C)	W/(m²*C)			um		mm					
heat tech1-O	413.53	231.50	1219.17	756.93	0.92	1352.73	0.36	190.73	433.03	74.88	74.68	888.83	0.39	0.40	30.91	32.18	2.27	3.23	0.46	0.51	0.76	0.55
heat tech2-I	313.94	275.67	1110.14	875.58	0.74	1277.21	0.44	200.46	377.88	62.52	62.19	914.13	0.57	0.54	42.27	100.73	2.07	2.04	0.57	0.34	0.46	0.48
Mean Outer	413.53	231.50	1219.17	756.93	0.92	1352.73	0.36	190.73	433.03	74.88	74.68	888.83	0.39	0.40	30.91	32.18	2.27	3.23	0.46	0.51	0.76	0.55
Mean Inner	313.94	275.67	1110.14	875.58	0.74	1277.21	0.44	200.46	377.88	62.52	62.19	914.13	0.57	0.54	42.27	100.73	2.07	2.04	0.57	0.34	0.46	0.48
Std. Outer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Std. Inner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV Outer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV Inner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Lampiran I Tahan Bakar

Panjang kain uji : 30 cm

Lebar uji kain : 10 cm

Komposisi kain	Waktu
60:40	20,3 detik
70:30	23,0 detik
40:60	16,4 detik
70:30	14,8 detik



Lampiran J Pengujian Kekuatan Sobek Kain

Kain rayon-akrilik 60:40 dengan beban 3200 gram

Arah lusi

No	Kekuatan sobek (%)	X (gram)	$(x - \bar{x})^2$
1	31	3200 $31 \times 100 = 992$	1024
2	33	3200 $33 \times 100 = 1056$	1024
3	32	3200 $32 \times 100 = 1024$	0
		$\bar{x} = 1024$	$\sum = 2048$

Arah pakan

No	Kekuatan sobek (%)	X (gram)	$(x - \bar{x})^2$
1	40	3200 $40 \times 100 = 1280$	453,69
2	44	3200 $44 \times 100 = 1408$	11384,89
3	38	3200 $38 \times 100 = 1216$	7276,09
		$\bar{x} = 1301,3$	$\sum = 19114,67$

Kain rayon-akrilik 70:30 dengan beban 3200 gram

Arah lusi

No	Kekuatan sobek (%)	X (gram)	$(x - \bar{x})^2$
1	30	$\frac{30 \times 3200}{100} = 960$	0
2	32	$\frac{32 \times 3200}{100} = 1024$	4096
3	28	$\frac{28 \times 3200}{100} = 896$	4096
		$\bar{x} = 960$	$\sum = 8192$

Arah pakan

No	Kekuatan sobek (%)	X (gram)	$(x - \bar{x})^2$
1	40	$\frac{40 \times 3200}{100} = 1280$	1024
2	44	$\frac{44 \times 3200}{100} = 1408$	16384
3	38	$\frac{38 \times 3200}{100} = 1216$	9216
		$\bar{x} = 1312$	$\sum = 26624$

Kain rayon-akrilik 40:60 dengan beban 3200 gram

Arah pakan

No	Kekuatan sobek (%)	X (gram)	$(x - \bar{x})^2$
1	40	$\frac{40 \times 3200}{100} = 1280$	50176
2	46	$\frac{46 \times 3200}{100} = 1472$	1024
3	55	$\frac{55 \times 3200}{100} = 1760$	65536
		$\bar{x} = 1504$	$\sum = 116736$

Arah lusi

No	Kekuatan sobek (%)	X (gram)	$(x - \bar{x})^2$
1	40	$\frac{40 \times 3200}{100} = 1280$	2840,89
2	44	$\frac{44 \times 3200}{100} = 1408$	5580
3	41	$\frac{41 \times 3200}{100} = 1312$	441
		$\bar{x} = 1333,3$	$\sum = 8861$

Kain rayon-akrilik 30:70 dengan beban 3200 gram

Arah pakan

No	Kekuatan sobek (%)	X (gram)	$(x - \bar{x})^2$
1	38	$\frac{38 \times 3200}{100} = 1216$	384
2	45	$\frac{45 \times 3200}{100} = 1440$	1024
3	49	$\frac{49 \times 3200}{100} = 1568$	25600
		$\bar{X} = 1408$	$\bar{a} = 27008$

Arah lusi

No	Kekuatan sobek (%)	X (gram)	$(x - \bar{x})^2$
1	50	$\frac{50 \times 3200}{100} = 1600$	25600
2	40	$\frac{40 \times 3200}{100} = 1280$	25600
3	45	$\frac{45 \times 3200}{100} = 1440$	0
		$\bar{X} = 1440$	$\bar{a} = 51200$