

LAMPIRAN

Lampiran 1. Hasil pengujian kekuatan tarik dan mulur

Kekuatan tarik dan mulur kain												
variasi	80/20				70/30				60/40			
	Kekuatan		Mulur		Kekuatan		Mulur		Kekuatan		Mulur	
	Kg	N	cm	%	Kg	N	cm	%	Kg	N	cm	%
1	23.0	225.40	1.5	20.0	28.1	275.38	2.0	26.7	27.6	270.48	1.9	25.3
2	21.1	206.78	0.9	12.0	19.5	191.10	1.1	14.7	25.7	251.86	2.5	33.3
3	23.7	232.26	1.8	24.0	21.1	206.78	1.5	20.0	25.8	252.84	1.6	21.3
4	20.1	196.98	1.5	20.0	20.5	200.90	1.2	16.0	26.1	255.78	2.3	30.7
5	20.1	196.98	1.6	21.3	25.1	245.98	1.6	21.3	23.2	227.36	1.6	21.3
Rata-rata	21.6	211.68	1.5	19.5	22.9	224.03	1.5	19.7	25.7	251.66	2.0	26.4
Maximal	23.7	232.26	1.8	24.0	28.1	275.38	2.0	26.7	27.6	270.48	2.5	33.3
Minimal	20.1	196.98	0.9	12.0	19.5	191.10	1.1	14.7	23.2	227.36	1.6	21.3
jumlah	108.0	1058.40	7.3	97.3	114.3	1120.14	7.4	98.7	128.4	1258.32	9.9	132.0
SD	1.667	16.340	0.336	4.482	3.620	35.481	0.356	4.752	1.583	15.517	0.409	5.449
CV	7.719		23.024		15.838		24.079		6.166		20.639	
Error	0.746	7.307	0.150	2.004	1.619	15.868	0.159	2.125	0.708	6.939	0.183	2.437

Lampiran 2. Statistika pengujian kekuatan tarik

- Uji normalitas kekuatan tarik

Tests of Normality							
	Komposisi	<i>Kolmogorov-Smirnov^a</i>			<i>Shapiro-Wilk</i>		
		<i>Statistic</i>	<i>Df</i>	<i>Sig.</i>	<i>Statistic</i>	<i>df</i>	<i>Sig.</i>
Tarik	1	.218	5	.200*	.860	5	.229
	2	.287	5	.200*	.889	5	.351
	3	.305	5	.144	.910	5	.468

- Uji homogenitas kekuatan tarik

Test of Homogeneity of Variances					
		<i>Levene Statistic</i>	<i>df1</i>	<i>df2</i>	<i>Sig.</i>
Tarik	<i>Based on Mean</i>	4.753	2	12	.030
	<i>Based on Median</i>	1.114	2	12	.360
	<i>Based on Median and with adjusted df</i>	1.114	2	6.337	.385
	<i>Based on trimmed mean</i>	4.418	2	12	.036

- Uji Kruskal-Wallis H kekuatan tarik

Test Statistics^{a,b}	
	Tarik
<i>Kruskal-Wallis H</i>	5.284
<i>Df</i>	2
<i>Asymp. Sig.</i>	.071
a. <i>Kruskal Wallis Test</i>	
b. <i>Grouping Variable: Komposisi</i>	

Lampiran 3. Hasil pengujian sobek (N)

Variasi	80:20			70:30			60:40		
	tertinggi (kgf)	terendah (kgf)	kekuatan sobek (N)	tertinggi (kgf)	terendah (kgf)	kekuatan sobek (N)	tertinggi (kgf)	terendah (kgf)	kekuatan sobek (N)
1	9.6	4.2		14.3	10.4		12.8	8.1	
	9.4	4.4		13.8	11.1		12.4	8.1	
	8.7	4.6		13.8	11.2		11.9	8	
	8.4	4.7		13.6	12		11.5	9.6	
	8.2	4.8		12.9	12.2		11	10.3	
Rata rata 1	6.7		65.66	12.53		122.794	10.37		101.626
2	5.4	4.4		14.8	2.4		11.8	7.2	
	5	4.4		14.1	2.4		14.1	7.2	
	5	4.5		13.8	4.6		13.8	7.3	
	4.9	4.5		13.7	4.9		13.6	7.7	
	4.8	4.6		12.4	5		13.2	7.7	
Rata rata 2	4.75		46.55	8.81		86.338	10.36		101.528
3	7.5	4.9		15	7.1		10.9	3.6	
	7	5.8		14.4	7.4		10.8	4	
	7	5.9		14.2	12.6		10.5	6.4	
	6.9	5.9		13.8	12.9		10	6.6	
	6.8	6		13.7	12.9		10	6.8	
Rata-rata 3	6.37		62.426	12.4		121.52	7.96		78.008

Lampiran 3. Data hasil pengujian sobek (N)(Lanjutan)

Variasi	80:20			70:30			60:40		
	tertinggi (kgf)	terendah (kgf)	kekuatan sobek (N)	tertinggi (kgf)	terendah (kgf)	kekuatan sobek (N)	tertinggi (kgf)	terendah (kgf)	kekuatan sobek (N)
4	5.2	2		10.4	4.3		14.8	5.2	
	5.2	2.1		10.3	5.3		14.4	6.8	
	5.2	3.8		8.9	5.3		14	8.7	
	5.1	3.9		8.9	5.9		13.8	9.4	
	4.8	4		8.5	8.2		12.8	11.4	
rata-rata 4	4.13		40.474	7.6		74.48	11.13		109.074
5	6.6	2.9		10.6	2.8		7.1	2	
	6.5	3.2		10.6	4.1		6.4	2.1	
	6.3	3.2		10.2	7.2		6.3	2.9	
	6.3	3.8		8.8	7.5		6	4	
	6.2	4		8.2	7.9		5.8	4	
rata-rata 5	4.9		48.02	7.79		76.342	4.66		45.668
Rata-rata kekuatan sobek	5.37		52.63	9.826		96.295	8.896		87.181
jumlah	26.85		263.13	49.13		481.474	44.48		435.904
Minimal	40.474			74.48			45.668		
Maksimal	65.660			122.794			109.074		
Standar Deviasi	22.272			24.040			25.987		
Koefisien Variasi	42.320			24.965			29.808		

Lampiran 4. Statistika pengujian kekuatan sobek

- Uji normalitas kekuatan sobek

Tests of Normality							
	Komposisi	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
sobek	80/20	.264	5	.200*	.897	5	.394
	70/30	.260	5	.200*	.797	5	.077
	60/40	.310	5	.132	.847	5	.186

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

- Uji homogenitas kekuatan sobek

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
sobek	Based on Mean	2.930	2	12	.092
	Based on Median	.554	2	12	.589
	Based on Median and with adjusted df	.554	2	8.087	.595
	Based on trimmed mean	2.680	2	12	.109

- Uji ANOVA kekuatan sobek

ANOVA					
sobek					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5289.562	2	2644.781	5.814	.017
Within Groups	5458.879	12	454.907		
Total	10748.441	14			

- Uji S-N-K

sobek				
	Komposisi	N	Subset for alpha = 0.05	
			1	2
Student-Newman-Keuls ^a	80/20	5	52.62600	
	60/40	5		87.18080
	70/30	5		96.19680
	Sig.		1.000	.517

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 5.000.

Lampiran 5. Data hasil pengujian daya tembus udara (*air permeability*)

Daya Tembus Udara (m ³ /m ² /s)			
Variasi	80/20	70/30	60/40
1	179.0	134.0	80.9
2	184.0	115.0	132.0
3	204.0	181.0	94.5
4	149.0	142.0	91.3
5	158.0	140.0	110.0
6	218.0	154.0	118.0
7	174.0	153.0	95.1
8	222.0	124.0	87.0
9	163.0	144.0	74.5
10	170.0	167.0	110.0
Rata-rata	182.1	145.4	99.3
Minimal	222.0	181.0	132.0
Maksimal	149.0	115.0	74.5
Standar Deviasi	1821.0	1454.0	993.3
Koefisien Variasi	25.004	19.495	17.819
Error	13.731	13.408	17.939
Minimal	7.907	6.165	5.635

Lampiran 6. Statistika pengujian daya tembus udara

- Uji normalitas daya tembus udara

Tests of Normality							
	Komposisi	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Daya tembus udara	80/20	.170	10	.200*	.930	10	.445
	70/30	.130	10	.200*	.983	10	.978
	60/40	.194	10	.200*	.962	10	.814
*. This is a lower bound of the true significance.							
a. Lilliefors Significance Correction							

- Uji homogenitas daya tembus udara

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
Daya tembus udara	Based on Mean	.693	2	27	.509
	Based on Median	.524	2	27	.598
	Based on Median and with adjusted df	.524	2	25.091	.599
	Based on trimmed mean	.678	2	27	.516

- Uji ANOVA daya tembus udara

ANOVA					
Daya tembus udara					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	34400.693	2	17200.346	39.010	.000
Within Groups	11904.821	27	440.919		
Total	46305.514	29			

- Uji S-N-K

Daya tembus udara				
Student-Newman-Keuls ^a				
Komposisi	N	Subset for alpha = 0.05		
		1	2	3
60/40	10	99.33000		
70/30	10		145.40000	
80/20	10			182.10000
Sig.		1.000	1.000	1.000
Means for groups in homogeneous subsets are displayed.				

Lampiran 7. Data hasil pengujian berat (g)

Gramasi/m ²						
Variasi	80/20		70/30		60/40	
	Berat 5x5 cm (g)	Gramasi/ m ²	Berat 5x5 cm (g)	Gramasi/ m ²	Berat 5x5 cm (g)	Gramasi/ m ²
1	1.286	514.512	1.296	518.400	1.239	495.776
2	1.390	556.132	1.307	522.800	1.419	567.640
3	1.321	528.440	1.191	476.400	1.213	485.000
4	1.255	501.876	1.284	513.600	1.315	526.028
5	1.317	526.748	1.207	482.620	1.259	503.600
Rata rata	1.314	525.542	1.257	502.764	1.289	515.609
maksimal	1.390	556.132	1.307	522.800	1.419	567.640
minimal	1.255	501.876	1.191	476.400	1.213	485.000
jumlah	6.569	2627.708	6.285	2513.820	6.445	2578.044
Standar Deviasi	0.050	20.170	0.054	21.588	0.082	32.750
Koefisien Variasi	3.838		4.294		6.352	
Error	0.023	9.020	0.024	9.654	0.037	14.646

Lampiran 8. Statistika penimbangan gramasi

- Uji normalitas gramasi

Tests of Normality							
	Komposisi	<i>Kolmogorov-Smirnov^a</i>			<i>Shapiro-Wilk</i>		
		<i>Statistic</i>	<i>df</i>	<i>Sig.</i>	<i>Statistic</i>	<i>df</i>	<i>Sig.</i>
Gramasi	80/20	.243	5	.200*	.955	5	.773
	70/30	.292	5	.189	.836	5	.154
	60/40	.243	5	.200*	.903	5	.424

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

- Uji homogenitas gramasi

Test of Homogeneity of Variances					
		<i>Levene Statistic</i>	<i>df1</i>	<i>df2</i>	<i>Sig.</i>
Gramasi	<i>Based on Mean</i>	.946	2	12	.415
	<i>Based on Median</i>	.294	2	12	.750
	<i>Based on Median and with adjusted df</i>	.294	2	9.375	.752
	<i>Based on trimmed mean</i>	.863	2	12	.447

- Uji ANOVA gramasi

ANOVA					
Gramasi					
	<i>Sum of Squares</i>	<i>df</i>	<i>Mean Square</i>	<i>F</i>	<i>Sig.</i>
<i>Between Groups</i>	1304.114	2	652.057	1.006	.395
<i>Within Groups</i>	7781.783	12	648.482		
<i>Total</i>	9085.897	14			

Lampiran 9. Data hasil pengujian ketebalan (mm)

Variasi	Ketebalan kain (mm)		
	80/20 Ketebalan (mm)	70/30 Ketebalan (mm)	60/40 Ketebalan (mm)
1	2.323	2.330	1.751
2	2.221	2.191	2.015
3	2.248	2.061	1.889
4	2.261	2.035	1.92
5	2.281	2.039	1.95
Rata rata	2.267	2.131	1.905
maksimal	2.323	2.330	2.015
minimal	2.221	2.035	1.751
jumlah	11.334	10.656	9.525
Standar Deviasi	0.038	0.128	0.098
Koeifisien Variasi	1.683	6.017	5.138
Standar Error	0.017	0.057	0.044



Lampiran 10. Statistika ketebalan kain

- Uji normalitas ketebalan kain

Tests of Normality							
	Komposisi	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Tebal	80/20	.160	5	.200*	.982	5	.945
	70/30	.308	5	.137	.824	5	.124
	60/40	.235	5	.200*	.944	5	.693

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

- Uji homogenitas ketebalan kain

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
Tebal	Based on Mean	2.898	2	12	.094
	Based on Median	.834	2	12	.458
	Based on Median and with adjusted df	.834	2	7.013	.473
	Based on trimmed mean	2.663	2	12	.110

- Uji ANOVA ketebalan kain

ANOVA					
Tebal					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.334	2	.167	18.232	.000
Within Groups	.110	12	.009		
Total	.444	14			

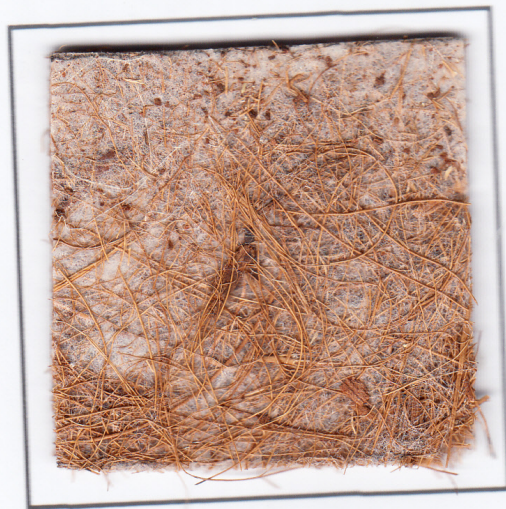
- Uji S-N-K

Tebal				
Student-Newman-Keuls ^a				
Komposisi	N	Subset for alpha = 0.05		
		1	2	3
60/40	5	1.90500		
70/30	5		2.13120	
80/20	5			2.26680
Sig.		1.000	1.000	1.000

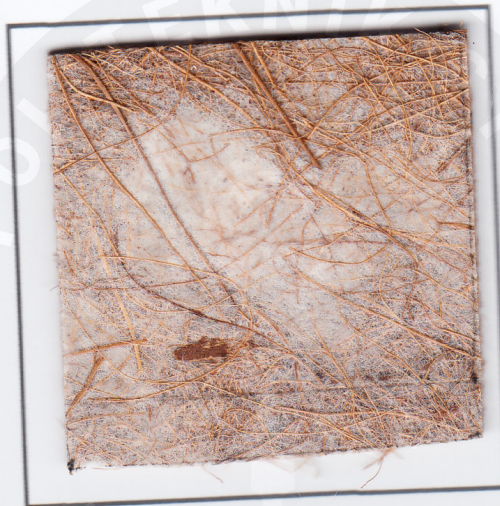
Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

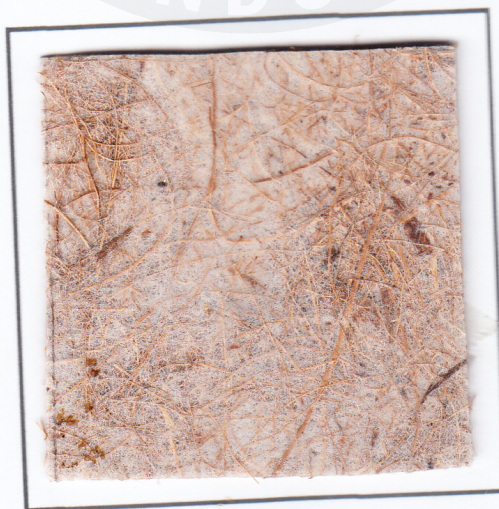
Lampiran 11. Contoh hasil



80% sabut kelapa : 20% Poliester Low Melt Fiber



70% sabut kelapa : 30% Poliester Low Melt Fiber



60% sabut kelapa : 40% Poliester Low Melt Fiber