

## LAMPIRAN

### LAMPIRAN A KEHALUSAN BENANG

Data mentah hasil pengujian kehalusan benang

Sampel	No	P (cm)	B (g)	Tex	rerata	SD	CV
100% PET	1	18	0.001260	7.00	6.77	1.256627	0.185526
	2	18	0.001560	8.67			
	3	24	0.001440	6.00			
	4	12	0.000640	5.33			
	5	30	0.002060	6.87			
1% CB	1	20	0.003000	15.00	15.49	5.123792	0.330684
	2	22	0.005300	24.09			
	3	20	0.002640	13.20			
	4	14	0.001470	10.50			
	5	22	0.003230	14.68			
3% CB	1	13	0.000850	6.54	6.01	3.561587	0.592509
	2	10	0.000160	1.60			
	3	10	0.000350	3.50			
	4	12	0.000930	7.75			
	5	9	0.000960	10.67			
5% CB	1	20	0.002140	10.70	11.33	1.946516	0.17176
	2	16	0.002360	14.75			
	3	15	0.001610	10.73			
	4	17	0.001810	10.65			
	5	12	0.001180	9.83			

Data hasil uji statistika

#### Tests of Normality

Sampel	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Nomor_Benang_Tex 100% PET	.229	5	.200 <sup>*</sup>	.956	5	.777
1% CB	.338	5	.063	.854	5	.206
3% CB	.160	5	.200 <sup>*</sup>	.980	5	.935
4.00	.421	5	.004	.713	5	.013

a. Lilliefors Significance Correction

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

**Test of Homogeneity of Variances**

Nomor\_Benang\_Tex

Levene Statistic	df1	df2	Sig.
1.702	3	16	.207

**ANOVA**

Nomor\_Benang\_Tex

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	291.159	3	97.053	8.759	.001
Within Groups	177.278	16	11.080		
Total	468.437	19			

**Post Hoc Tests****Homogeneous Subsets**

Nomor\_Benang\_Tex

Student-Newman-Keuls<sup>a</sup>

Sampel	N	Subset for alpha = 0.05	
		1	2
3% CB	5	6.0120	
100% PET	5	6.7740	
4.00	5	11.3320	11.3320
1% CB	5		15.4940
Sig.		.055	.066

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## LAMPIRAN B KEKUATAN TARIK

Data mentah hasil pengujian kekuatan tarik benang

Sampel	g	g/Tex	Diameter	Luas	Mpa
100% PET	14.5	2.14	0.0783	0.004813	30.12831
	21.5	3.17			44.67302
	19.5	2.88			40.51739
	15	2.21			31.16722
	9	1.33			18.70033
	36	5.31			74.80133
	32	4.72			66.49007
	19.5	2.88			40.51739
	10	1.48			20.77815
	18	2.66			37.40067
	14.5	2.14			30.12831
	13	1.92			27.01159
	25.5	3.76			52.98428
	14.5	2.14			30.12831
	12	1.77			24.93378
	14	2.07			29.08941
	18	2.66			37.40067
Rerata		2.66			37.46
SD		1.08286			15.23988
CV		0.406812			0.406812

Sampel	g	g/Tex	Diameter	Luas	Mpa
1% CB	25	1.61	0.1038	0.008458	29.55804
	43.5	2.81			51.43099
	30	1.94			35.46965
	23	1.48			27.1934
	37	2.39			43.7459
	21	1.36			24.82875
	21.5	1.39			25.41992
	18.5	1.19			21.87295
	47	3.03			55.56912
	21	1.36			24.82875
	41	2.65			48.47519
	43	2.78			50.83983
	47	3.03			55.56912
	12.5	0.81			14.77902
	14	0.90			16.5525
	17.5	1.13			20.69063
	23	1.48			27.1934
Rerata		1.84			33.77
SD		0.769059			14.08881
CV		0.417252			0.417252

## B.2

Sampel	g	g/Tex	Diameter	Luas	Mpa
3% CB	13	2.16	0.1548	0.018811	6.910855
	11.5	1.91			6.113449
	30	4.99			15.94813
	23	3.83			12.2269
	30	4.99			15.94813
	6	1.00			3.189625
	4	0.67			2.126417
	33	5.49			17.54294
	22	3.66			11.69529
	9	1.50			4.784438
	10	1.66			5.316042
	25	4.16			13.29011
	10	1.66			5.316042
	15	2.50			7.974063
	23	3.83			12.2269
	16	2.66			8.505668
	23	3.83			12.2269
Rerata		2.97			9.49
SD		1.489071			4.758308
CV		0.501365			0.501365

Sampel	g	g/Tex	Diameter	Luas	Mpa
5% CB	16	1.41	0.0813	0.005189	30.8368
	5.5	0.49			10.60015
	8	0.71			15.4184
	7.5	0.66			14.45475
	7	0.62			13.4911
	12	1.06			23.1276
	4	0.35			7.709199
	17.5	1.54			33.72774
	9	0.79			17.3457
	6	0.53			11.5638
	11	0.97			21.2003
	8	0.71			15.4184
	5	0.44			9.636498
	16.5	1.46			31.80044
	10	0.88			19.273
	7	0.62			13.4911
	13	1.15			25.0549
Rerata		0.85			18.48
SD		0.366566			8.006383
CV		0.43326			0.43326

## Data hasil uji statistika

## Tests of Normality

	Sampel	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Kekuatan_Tarik	100% PET	.190	17	.106	.879	17	.031
	1% CB	.209	17	.047	.888	17	.043
	3% CB	.149	17	.200	.945	17	.386
	4% CB	.178	17	.154	.921	17	.156

## Test of Homogeneity of Variances

Kekuatan\_Tarik

Levene Statistic	df1	df2	Sig.
6.373	3	64	.001

## ANOVA

Kekuatan\_Tarik

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8755.498	3	2918.499	22.559	.000
Within Groups	8279.874	64	129.373		
Total	17035.372	67			

## Post Hoc Tests

## Homogeneous Subsets

Kekuatan\_Tarik

Student-Newman-Keuls<sup>a</sup>

Sampel	N	Subset for alpha = 0.05		
		1	2	3
3% CB	17	9.4907		
4.00	17		18.4794	
1% CB	17			33.7657
100% PET	17			37.4618
Sig.		1.000	1.000	.347

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 17,000.

## LAMPIRAN C MULUR BENANG

Data mentah hasil pengujian mulur benang

NO	100%PET	1%CB	3%CB	5%CB
1	2%	4%	4%	4%
2	4%	4%	4%	6%
3	4%	2%	4%	4%
4	4%	4%	4%	4%
5	2%	4%	4%	2%
6	6%	4%	4%	4%
7	4%	6%	2%	4%
8	2%	4%	4%	4%
9	4%	6%	4%	6%
10	2%	2%	6%	4%
11	2%	2%	4%	4%
12	2%	4%	2%	4%
13	4%	4%	4%	4%
14	4%	4%	2%	4%
15	4%	4%	4%	4%
Rata-rata	3%	4%	4%	4%
SD	1%	1%	1%	1%
CV	0.370	0.307	0.277	0.221

Data hasil uji statistika

### Tests of Normality

Sampel	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Mulur 100% PET	.305	15	.001	.766	15	.001
1% CB	.345	15	.000	.763	15	.001
3% CB	.402	15	.000	.694	15	.000
4.00	.425	15	.000	.631	15	.000

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

Mulur

Levene Statistic	df1	df2	Sig.
1.491	3	56	.227

**ANOVA**

Mulur

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.001	3	.000	1.378	.259
Within Groups	.007	56	.000		
Total	.007	59			

**Post Hoc Tests****Homogeneous Subsets**

Mulur

Student-Newman-Keuls<sup>a</sup>

Sampel	N	Subset for alpha = 0.05
		1
100% PET	15	.0333
3% CB	15	.0373
1% CB	15	.0387
4.00	15	.0413
Sig.		.203

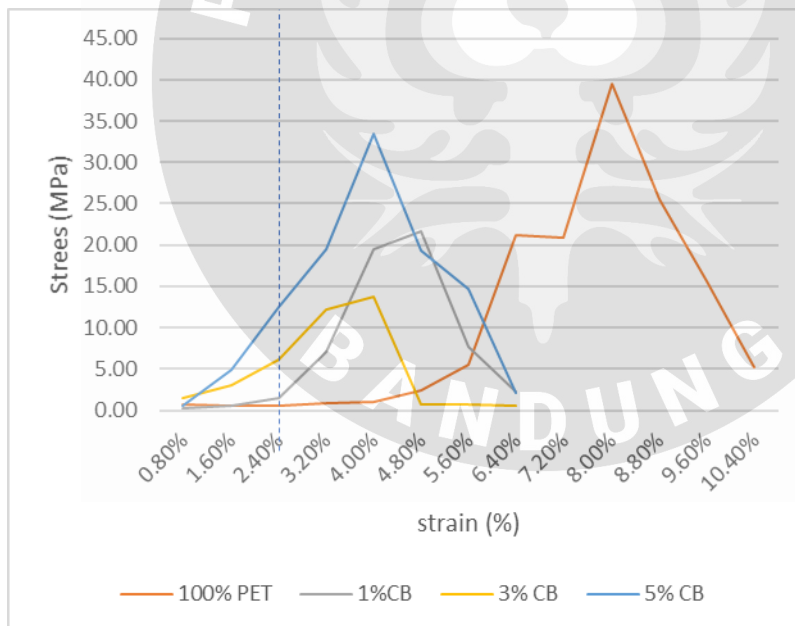
Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 15,000.

## LAMPIRAN D MODULUS ELASTISITAS

Data mentah hasil pengujian modulus elastisitas benang

Mulur	100% PET		1%		3%		5%	
%	Mpa	E (Mpa)	Mpa	E (Mpa)	Mpa	E (Mpa)	Mpa	E (Mpa)
0.80%	0.64	79.47641	0.22	28.08014	1.51	188.9853	0.58	72.99648
1.60%	0.48	30.25818	0.59	36.94755	2.97	185.7292	4.85	303.0679
2.40%	0.56	23.46199	1.55	64.48579	6.15	256.3661	12.45	518.9254
3.20%	0.80	24.93378	7.11	222.2395	12.21	381.6586	19.42	606.9789
4.00%	1.03	25.81685	19.44	485.9342	13.77	344.1606	33.53	838.1826
4.80%	2.39	49.6944	21.74	452.8784	0.73	15.28362	19.29	401.8821
5.60%	5.57	99.43828	7.64	136.4737	0.64	11.37253	14.61	260.8394
6.40%	21.15	330.405	2.26	35.34033	0.54	8.430911	2.12	33.06524
7.20%	20.91	290.3746						
8.00%	39.58	494.7537						
8.80%	25.54	290.2329						
9.60%	15.58	162.3076						
10.40%	5.17	49.70772						



Sampel	E (Mpa)
100% PET	23.46199
1% CB	64.48579
3% CB	256.3661
5% CB	518.9254



**LAMPIRAN E DIAMETER BENANG**

