LAMPIRAN

Lampiran 1 Data pengujian nomor benang

- Panjang benang = 120 yard
  = 109,73 meter
- Berat benang

No	Berat (gram)
1	9,0410
2	9,0489
3	8,9612
4	9,0844
5	9,1585
$\sum$	**45,2940**
$\bar{x}$	**9,0588**

- Nomor benang

Ne = $\frac{P\ (hank)}{B\ (lbs)} = \frac{\frac{109{,}73\ m}{768\ m/hank}}{\frac{9{,}0588\ g}{453{,}6\ g/lbs}} = \frac{109{,}73\ \cancel{m}}{768\ \cancel{m}/hank} \times \frac{9{,}0588\ g}{453{,}6\ \cancel{g}/lbs}$

= 0,1429 hank × 0,0200 lbs

= 7,1543 ≈ 7

Karena benang gintir, maka

Nomor benang × 2 = 7 × 2

= 14

Lalu dibagi 2 tapi tidak diselesaikan.

Ne 14/2

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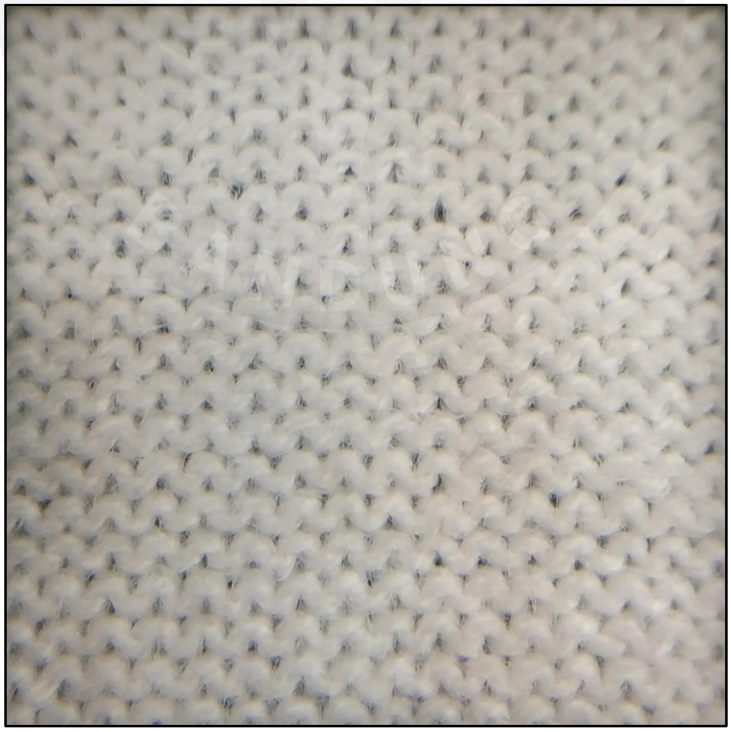
Lampiran 2 Gambar kain rajut dengan variasi struktur 100% *knit*

Kain tampak depan



Kain tampak belakang

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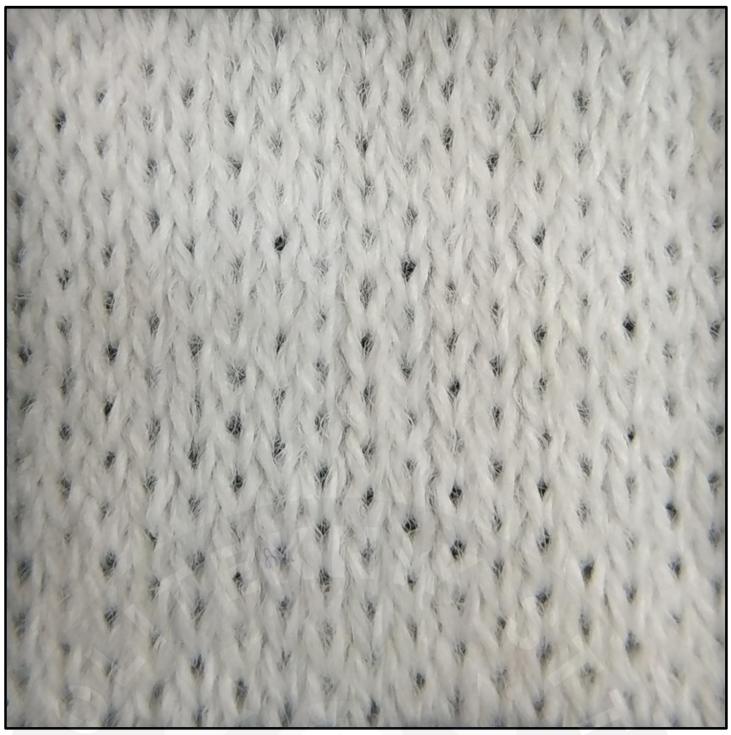
Lampiran 3 Gambar kain rajut dengan variasi struktur 50% *knit* : 50% *tuck*



Kain tampak depan

Kain tampak belakang

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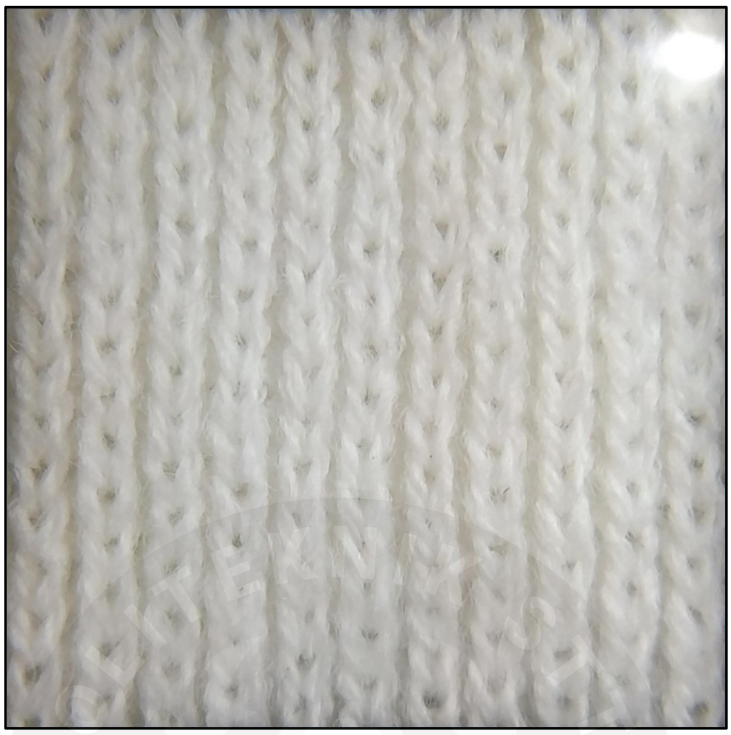
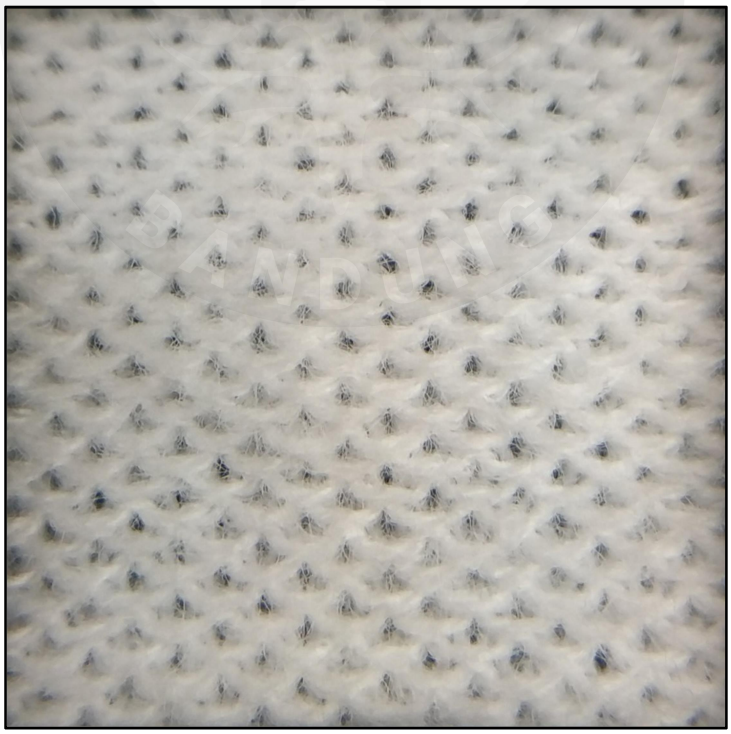
Lampiran 4 Gambar kain rajut dengan variasi struktur 50% *knit* : 50% *welt/miss*



Kain tampak depan



Kain tampak belakang

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Lampiran 5 Gambar kain rajut dengan variasi struktur 75% *knit* : 25% *tuck*

Kain tampak depan

Kain tampak belakang

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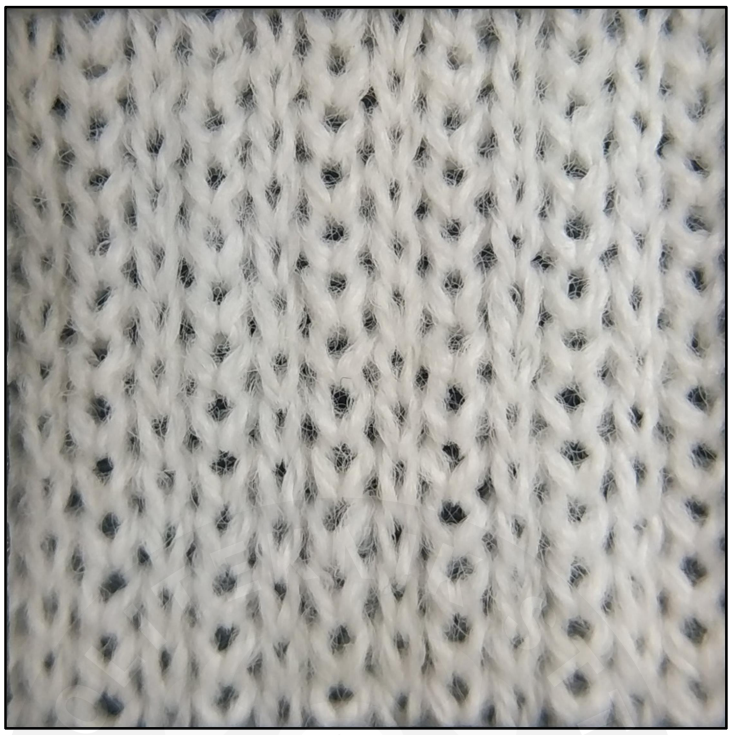
Lampiran 6 Gambar kain rajut dengan variasi struktur 75% *knit :* 25% *welt/miss*



Kain tampak depan

Kain tampak belakang

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Lampiran 7 Gambar kain rajut dengan variasi struktur 50% *knit* : 25% *tuck* : 25% *welt/miss*

Kain tampak depan

Kain tampak belakang

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Lampiran 8 Data hasil pengujian CPI

No	*Course per inch* (CPI)					
	Variasi 1	**Variasi 2**	**Variasi 3**	**Variasi 4**	**Variasi 5**	**Variasi 6**
1	19	15	16	14	12	13
2	19	15	16	14	12	14
3	19	15	16	14	12	14
4	19	15	16	14	13	14
5	19	15	16	15	12	14
6	19	15	15	14	12	14
7	19	15	16	14	12	14
8	20	15	15	14	12	14
9	19	15	15	14	12	14
10	19	14	15	14	12	14
$\sum$	**191**	**149**	**156**	**141**	**121**	**139**
$\bar{x}$	**19,1**	**14,9**	**15,6**	**14,1**	**12,1**	**13,9**
S	**0,3162**	**0,3162**	**0,4944**	**0,3162**	**0,3162**	**0,3162**
CV	**1,6556**	**2,1223**	**3,1693**	**2,2428**	**2,6135**	**2,2750**
e	**0,1000**	**0,1000**	**0,1633**	**0,1000**	**0,1000**	**0,1000**

Keterangan variasi:

1 = 100% *knit*

2 = 50% *knit* : 50% *tuck*

3 = 50% *knit* : 50% *welt*

4 = 75% *knit* : 25% *tuck*

5 = 75% *knit* : 25% *welt*

6 = 50% *knit* : 25% *tuck* : 25% *welt*

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Lampiran 9 Data hasil pengujian WPI

No	*Wale per inch* (WPI)					
	Variasi 1	**Variasi 2**	**Variasi 3**	**Variasi 4**	**Variasi 5**	**Variasi 6**
1	16	11	17	12	15	16
2	16	11	17	12	15	15
3	16	11	17	12	15	16
4	16	11	17	12	16	16
5	16	12	17	12	16	16
6	16	11	17	12	16	15
7	16	11	17	12	16	16
8	16	11	17	12	15	16
9	16	12	17	12	16	16
10	16	11	17	12	15	16
$\sum$	**160**	**112**	**170**	**120**	**155**	**158**
$\bar{x}$	**16**	**11,2**	**17**	**12**	**15,5**	**15,8**
S	**0**	**0,4216**	**0**	**0**	**0,5270**	**0,4216**
CV	**0**	**3,7646**	**0**	**0**	**3,400299**	**2,6686**
e	**0,0**	**0,1333**	**0,00**	**0,0**	**0,1667**	**0,1333**

Keterangan variasi:

1 = 100% *knit*

2 = 50% *knit* : 50% *tuck*

3 = 50% *knit* : 50% *welt*

4 = 75% *knit* : 25% *tuck*

5 = 75% *knit* : 25% *welt*

6 = 50% *knit* : 25% *tuck* : 25% *welt*

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Lampiran 10 Data hasil perhitungan kerapatan kain

No	Kerapatan (*loops/inch*^{2})			
	Variasi	$\bar{x}$ **CPI**	$\bar{x}$ **WPI**	$\bar{x}$ **CPI** × $\bar{x}$ **WPI**
1	100% *knit*	19,1	16	**305,6**
2	50% *knit* : 50% *tuck*	14,9	11,2	**166,88**
3	50% *knit* : 50% *welt*	15,6	17	**265,2**
4	75% *knit* : 25% *tuck*	14,1	12	**169,2**
5	75% *knit* : 25% *welt*	12,1	15,5	**187,55**
6	50% *knit* : 25% *tuck* : 25% *welt*	13,9	15,8	**219,62**

-

Lampiran 11 Data hasil pengujian *gramasi*

No	*Gramasi* (g/m^2)					
	Variasi 1	**Variasi 2**	**Variasi 3**	**Variasi 4**	**Variasi 5**	**Variasi 6**
1	2,3867	2,6701	2,6431	2,6249	2,4294	2,9247
2	2,4091	2,6263	2,5816	2,6230	2,4147	2,9295
3	2,3778	2,587	2,6174	2,5122	2,3923	2,8793
4	2,4080	2,5860	2,6420	2,5837	2,3603	2,9053
5	2,3868	2,5662	2,5799	2,5579	2,3309	2,9182
$\sum$	**11,9684**	**13,0356**	**13,0639**	**12,90163**	**11,92756**	**14,5570**
$\bar{x}$	**2,3937**	**2,6071**	**2,6128**	**2,5803**	**2,3855**	**2,9114**
S	**0,0141**	**0,0414**	**0,0310**	**0,0473**	**0,0401**	**0,0201**
CV	**0,5873**	**1,5895**	**1,1873**	**1,8348**	**1,6827**	**0,6908**
e	**0,0063**	**0,0185**	**0,0139**	**0,0212**	**0,0180**	**0,0090**

Keterangan variasi:

1 = 100% *knit*

2 = 50% *knit* : 50% *tuck*

3 = 50% *knit* : 50% *welt*

4 = 75% *knit* : 25% *tuck*

5 = 75% *knit* : 25% *welt*

6 = 50% *knit* : 25% *tuck* : 25% *welt*

-

Lampiran 12 Data hasil pengujian ketebalan kain

No	Ketebalan kain (mm)					
	Variasi 1	**Variasi 2**	**Variasi 3**	**Variasi 4**	**Variasi 5**	**Variasi 6**
1	1,19	1,44	1,45	1,41	1,09	1,56
2	1,1	1,41	1,4	1,4	1,12	1,52
3	1,15	1,4	1,46	1,45	1,15	1,53
4	1,11	1,43	1,43	1,41	1,13	1,54
5	1,17	1,43	1,47	1,41	1,15	1,5
6	1,14	1,44	1,44	1,44	1,12	1,51
7	1,17	1,43	1,44	1,43	1,13	1,55
8	1,17	1,43	1,45	1,44	1,15	1,53
9	1,15	1,45	1,47	1,42	1,12	1,5
10	1,19	1,46	1,43	1,39	1,14	1,54
$\sum$	**11,54**	**14,32**	**14,44**	**14,2**	**11,3**	**15,28**
$\bar{x}$	**1,154**	**1,432**	**1,444**	**1,42**	**1,13**	**1,528**
S	**0,0306**	**0,0175**	**0,0243**	**0,0194**	**0,0189**	**0,0204**
CV	**2,6537**	**1,222898**	**1,6805**	**1,3688**	**1,6687**	**1,3377**
e	**0,0097**	**0,0055**	**0,0067**	**0,0061**	**0,0060**	**0,0065**

Keterangan variasi:

1 = 100% *knit*

2 = 50% *knit* : 50% *tuck*

3 = 50% *knit* : 50% *welt*

4 = 75% *knit* : 25% *tuck*

5 = 75% *knit* : 25% *welt*

6 = 50% *knit* : 25% *tuck* : 25% *welt*

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Lampiran 13 Data hasil pengujian daya tembus udara

No	Daya tembus udara (cm^3/cm^2/detik)					
	Variasi 1	**Variasi 2**	**Variasi 3**	**Variasi 4**	**Variasi 5**	**Variasi 6**
1	110	138	102	121	123	96,5
2	116	137	103	123	120	94,5
3	114	131	103	123	124	92,7
4	112	135	102	125	121	92,8
5	111	136	99,3	128	122	97,6
6	112	137	106	125	120	90,8
7	114	138	105	124	125	98,4
8	118	139	100	128	124	100
9	109	135	99,2	124	123	93,5
10	109	137	99	128	122	95,7
$\sum$	**1125**	**1363**	**1018,5**	**1249**	**1224**	**952,5**
$\bar{x}$	**112,5**	**136,3**	**101,85**	**124,9**	**122,4**	**95,25**
S	**2,9907**	**2,2632**	**2,3382**	**2,4244**	**1,7127**	**2,9003**
CV	**2,6584**	**1,6605**	**2,2957**	**1,9411**	**1,3993**	**3,0449**
e	**0,9458**	**0,7157**	**0,7811**	**0,7667**	**0,5416**	**0,9172**

Keterangan variasi:

1 = 100% *knit*

2 = 50% *knit* : 50% *tuck*

3 = 50% *knit* : 50% *welt*

4 = 75% *knit* : 25% *tuck*

5 = 75% *knit* : 25% *welt*

6 = 50% *knit* : 25% *tuck* : 25% *welt*

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Lampiran 14 Uji statistika *gramasi*

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Variasi	Statistic	df	Sig.	Statistic	df	Sig.
Gramasi	100% knit	.288	5	.200*	.851	5	.197
	50% knit 50% tuck	.286	5	.200*	.905	5	.437
	50% knit 50% welt	.243	5	.200*	.832	5	.144
	75% knit 25% tuck	.216	5	.200*	.916	5	.505
	75% knit 25% welt	.167	5	.200*	.959	5	.800
	50% knit 25% tuck 25% welt	.232	5	.200*	.894	5	.380

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Gramasi	Based on Mean	1.907	5	24	.131
	Based on Median	.996	5	24	.441
	Based on Median and with adjusted df	.996	5	15.396	.452
	Based on trimmed mean	1.803	5	24	.150

ANOVA

Gramasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.921	5	.184	154.956	.000
Within Groups	.029	24	.001		
Total	.949	29			

-

Lampiran 15 Uji statistika *gramasi* (lanjutan)

Gramasi

Student-Newman-Keuls[a]

Variasi	N	Subset for alpha = 0.05		
		1	2	3
75% knit 25% welt	5	2.385520		
100% knit	5	2.393680		
75% knit 25% tuck	5		2.580340	
50% knit 50% tuck	5		2.607120	
50% knit 50% welt	5		2.612800	
50% knit 25% tuck 25% welt	5			2.911400
Sig.		.711	.314	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

Lampiran 16 Uji statistika ketebalan kain

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Variasi	Statistic	df	Sig.	Statistic	df	Sig.
Ketebalan Kain	100% knit	.199	10	.200*	.910	10	.281
	50% knit 50% tuck	.255	10	.065	.941	10	.560
	50% knit 50% welt	.154	10	.200*	.932	10	.473
	75% knit 25% tuck	.197	10	.200*	.951	10	.683
	75% knit 25% welt	.198	10	.200*	.884	10	.144
	50% knit 25% tuck 25% welt	.139	10	.200*	.950	10	.665

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Ketebalan Kain	Based on Mean	1.010	5	54	.421
	Based on Median	.951	5	54	.456
	Based on Median and with adjusted df	.951	5	45.829	.457
	Based on trimmed mean	.999	5	54	.427

ANOVA

Ketebalan Kain

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.389	5	.278	586.192	.000
Within Groups	.026	54	.000		
Total	1.415	59			

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Lampiran 17 Uji statistika ketebalan kain (lanjutan)

Ketebalan Kain

Student-Newman-Keuls[a]

Variasi	N	Subset for alpha = 0.05				
		1	2	3	4	5
75% knit 25% welt	10	1.1300				
100% knit	10		1.1540			
75% knit 25% tuck	10			1.4200		
50% knit 50% tuck	10			1.4320	1.4320	
50% knit 50% welt	10				1.4440	
50% knit 25% tuck 25% welt	10					1.5280
Sig.		1.000	1.000	.223	.223	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

Lampiran 18 Uji statistika daya tembus udara

Tests of Normality

	Variasi	Kolmogorov-Smirnov[a] Statistic	df	Sig.	Shapiro-Wilk Statistic	df	Sig.
Daya Tembus Udara	100% knit	.166	10	.200*	.939	10	.537
	50% knit 50% tuck	.221	10	.180	.873	10	.107
	50% knit 50% welt	.173	10	.200*	.914	10	.312
	75% knit 25% tuck	.199	10	.200*	.899	10	.213
	75% knit 25% welt	.137	10	.200*	.943	10	.591
	50% knit 25% tuck 25% welt	.127	10	.200*	.977	10	.945

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya Tembus Udara	Based on Mean	.862	5	54	.513
	Based on Median	.732	5	54	.602
	Based on Median and with adjusted df	.732	5	46.968	.603
	Based on trimmed mean	.847	5	54	.523

ANOVA

Daya Tembus Udara

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11739.883	5	2347.977	376.781	.000
Within Groups	336.510	54	6.232		
Total	12076.393	59			

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Lampiran 19 Uji statistika daya tembus udara (lanjutan)

Daya Tembus Udara

Student-Newman-Keuls[a]

Variasi	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
50% knit 25% tuck 25% welt	10	95.250					
50% knit 50% welt	10		101.850				
100% knit	10			112.500			
75% knit 25% welt	10				122.400		
75% knit 25% tuck	10					124.900	
50% knit 50% tuck	10						136.300
Sig.		1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.