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LAMPIRAN

Lampiran 1 Mesin *Ring Spinning*



Lampiran 2 Penyambungan kembali *Spindle tape* bekas pada mesin



Lampiran 3 Pengambilan sampel benang dengan menggunakan *Spindle tape* bekas



Lampiran 6 Hasil uji penggunaan *Spindle tape* bekas

USTER TESTER 4-SK R 1.8" Sun 12.05.19 21:25 Operator Page 1
 PT PAMOR 2 KARANGANYAR, INDONESIA

Style 30R/APR Sample ID 00006 Nom. count Rec 30 Nom. twist 18.40 T
 Tests 5 / 1 v = 400 m/min ts = 2 min Mass slot 4 Short staple

Daily Report

Article RAYON Material class Yarn Mach. Nr. RF
 Uster Statistics
 Fiber RAYON 1.2den 38mm 100%

Nr	U%	CV%	Index	Thin -50%	Thick +50%	Neps +200%	Neps +250%	Rel. Cnt ±	H	an
	%	%		/km	/km	/km	/km	%		
1	10.03	12.72	1.55	2.5	42.5	151.3	56.3	-1.4	5.44	1.13
2	9.61	12.14	1.48	0.0	30.0	112.5	27.5	4.0	5.74	1.07
3	9.71	12.35	1.50	0.0	47.5	160.0	58.0	-1.6	5.45	1.04
4	10.21	13.13	1.60	1.3	117.5	301.3	115.0	-3.0	5.59	1.20
5	10.88	14.35	1.74	27.5	36.3	97.5	25.3	2.1	5.57	1.07
Mean	10.09	12.94	1.57	5.3	54.8	154.5	55.8	-0.0	5.55	1.10
CV	5.0	6.5	6.5	190.8	65.2	49.1	63.4	2.9	2.2	5.7
Q95	0.63	1.02	0.13	14.8	44.3	100.3	44.7	3.6	0.15	0.08

IPI = 226.

Lampiran 7 Hasil uji penggunaan *Spindle tape* bekas

USTER TENSORAPID 3 V7.0 MD 20-03-50 2:13 Operator: M Page: 1

Article number: 006R Test number: 001 Test counts: 3600 Hst
 Tests: 4/5 v = 5000 m/min. FV = 7.5 gf LV = 500 m/s a₁ = 338 N/cc² (30%)

SINGLE VALUES

Test No.	Time to Br. (s)	B-Force (gf)	Elongation (%)	Tenacity (cN/tex)	B-work (gf.cm)
1/1	0.7	324.0	11.55	16.14	1233.0
1/2	0.8	365.4	13.02	18.20	1525.3
1/3	0.7	304.5	11.68	15.17	1159.1
1/4	0.6	291.9	10.47	14.04	964.8
1/5	0.8	343.3	14.13	17.11	1552.3
2/1	0.8	350.5	13.53	17.46	1540.5
2/2	0.7	320.9	12.44	15.99	1319.6
2/3	0.8	315.5	12.64	15.72	1300.2
2/4	0.8	352.9	13.84	17.58	1567.3
2/5	0.8	325.6	13.16	16.22	1375.1
3/1	0.8	311.1	13.09	15.50	1326.1
3/2	0.9	350.3	15.22	17.45	1693.5
3/3	1.0	370.3	16.38	18.45	1908.0
3/4	0.8	304.7	13.10	15.18	1292.4
3/5	0.8	332.9	14.12	16.59	1493.3
4/1	0.6	292.6	10.13	14.58	983.8
4/2	0.6	296.9	10.26	14.79	997.9
4/3	0.7	334.8	11.88	16.68	1283.4
4/4	0.7	317.4	11.55	15.82	1190.9
4/5	0.8	343.0	13.76	17.09	1506.4

8-298,61

Lampiran 8 Standar kualitas benang

QUALITY SPECIFICATIONS YARN	
PRODUCT	30 R (Lot 304)
END USE	WEAVING KNITTING
RAYON, %	100.0
LEA COUNT, No.1	29.98
LEA COUNT, CV %	1.36
TWIST MULTIPLIER	3.37
TWIST PER INCH	18.48
YARN STRENGTH, gf	330
YARN STRENGTH, MIN 6 STR, gf	302
YARN STRENGTH, CV %	7.79
YARN TENACITY, RKM	16.75
YARN TENACITY, cNtex	16.42
ELONGATION, %	14.89
LEA STRENGTH, LBS	89
CESP	2668
YARN EVENNESS, U %	9.79
YARN IMPERFECTIONS / 1000 M	
THIN PLACES	1
THICK PLACES	36
NEPS	121
TOTAL IPI	158
HAIRINESS, %	6.53

Date: 02 Sep 2019

Lampiran 9 Contoh *Spindle tape* baru dan bekas



