

Test of Yarn Traction with MesdanLab Strength Tester							
Customer Code	SPINNING 2		Test Code	CD 40	Date	8/8/2019 Time 8:17:02 PM	
Sample Description							
Parcel	RX A 10		Lot	06/19/2/CD40		Sample Number	20
Material	CD 40					Count	40 [Ne]
Examiner	DESY						
Sample Length	500 [mm]		Load cell ID/FS [kg]	1 / 2		X 1	
Clamp Speed	500 [mm/min]		Pretension	0 [g]			
Test Machine							
Observations							
Statistical Results of the Test							
	Force [g]	Elongation [%]	Tenacity [cN/tex]	Average Time of Breakage		2.6 [s]	
Maximum	226.200 (10)	5.100 (16)	15.025 (10)				
Minimum	150.400 (18)	3.600 (18)	9.990 (18)				
Range	194.155	4.416	12.897				
Average	39.041 [%]	33.967 [%]	39.041 [%]				
Standard Deviation	9.881 [%]	10.21 [%]	9.881 [%]				
5%	19.185	0.451	1.274				
9%	8.408	0.198	0.559				
	11.050	0.260	0.734				
Results of Single Samples							
Sample #	Max Force [g]	Max Elongation [%]	Time [s]	Tenacity [cN/tex]			
1	166.3	3.66	2.2	11.046			
2	204.4	4.32	2.6	13.577			
3	208.3	4.56	2.7	13.836			
4	177.9	4.08	2.4	11.817			
5	180.8	3.66	2.2	12.009			
6	199.3	4.26	2.6	13.238			
7	184.6	4.08	2.4	12.262			
8	208.0	4.68	2.8	13.816			
9	192.0	4.62	2.8	12.753			
10	226.2	4.80	2.9	15.025			
11	171.8	4.44	2.7	11.412			
12	187.6	4.20	2.5	12.461			
13	213.7	5.04	3.0	14.195			
14	214.0	5.04	3.0	14.215			
15	194.1	4.86	2.9	12.893			
16	222.2	5.10	3.1	14.759			
17	190.5	4.32	2.6	12.654			
18	150.4	3.60	2.2	9.990			
19	202.3	4.50	2.7	13.438			
20	188.7	4.50	2.7	12.534			

Gambar 1 Hasil Uji Kekuatan Benang Mesin MesdanLab Strength

Test of Yarn Traction with MesdanLab Strength Tester

Customer Code	SPINNING 2	Test Code	CD 40	Date	8/10/2019 Time 9:54:52 AM	
Sample Description					Sample Number	40
Parcel	RF ACDE	Lot	06/19/2/CD40	Count	40 [Ne]	
Material	COPS					
Examiner	VTNA					
Sample Length	500 [mm]	Load cell ID/ES [kg]	1/2	X 1		
Clamp Speed	500 [mm/min]	Pretension	0 [g]			
Test Machine						
Observations						

Statistical Results of the Test

	Force [g]	Elongation [%]	Tenacity [cN/tex]	Average Time of Breakage [s]
Maximum	254.000 (16)	6.360 (24)	16.872 (16)	3.3 [s]
Minimum	179.600 (8)	4.560 (18)	11.930 (8)	
Average	216.558	5.487	14.385	
Range	34.356 [%]	32.805 [%]	34.356 [%]	
CV	9.163 [%]	8.635 [%]	9.163 [%]	
Deviation	19.843	0.474	1.318	
IC95%	6.149	0.147	0.408	
IC99%	8.082	0.193	0.537	

Results of Single Samples

Sample #	Max Force [g]	Max Elongation [%]	Time [s]	Tenacity [cN/tex]
1	223.2	5.46	3.3	14.826
2	187.4	4.68	2.8	12.448
3	189.6	4.74	2.8	12.594
4	214.4	5.76	3.5	14.241
5	213.6	5.52	3.3	14.188
6	219.8	5.76	3.5	14.600
7	215.5	5.58	3.3	14.314
8	179.6	4.92	3.0	11.930
9	220.2	6.00	3.6	14.627
10	228.6	5.88	3.5	15.184
11	200.4	5.46	3.3	13.311
12	211.1	5.82	3.5	14.022
13	209.7	5.58	3.3	13.929
14	195.1	4.98	3.0	12.959
15	214.3	5.34	3.2	14.235
16	254.0	5.64	3.4	16.872
17	236.6	5.64	3.4	15.716
18	187.0	4.56	2.7	12.421
19	231.0	5.52	3.3	15.344
20	233.4	5.46	3.3	15.503

Gambar 2 Hasil Uji Kekuatan Benang Setelah Perbaikan

