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Test of Yarn Traction with MesdanLab Strength Tester

Customer Code	VTEX	Test Code	NE 43/2	Date	20/03/2023	Time 9:22:55 AM
Sample Description	TPM 847	Sample Number	20			
Parcel	PL	Lot	SSP 03-22	Count	21 [Ne]	
Material						
Examiner	PHAM TRONG					
Sample Length	500 [mm]	Load cell ID/FS [kg]	3 / 12 X 1			
Clamp Speed	500 [mm/min]	Pretension	14 [cN]			
Test Machine	MesdanTensolab CRE					
Test Conditions	25C, 1 atm, 60% Rh					
Observations						

Statistical Results of the Test

	Force [cN]	Elongation [%]	Tenacity [cN/tex]	Average Time of Breakage [s]
Maximum	1064.022 (18)	12.780 (16)	37.837 (18)	7.2
Minimum	916.922 (11)	11.160 (11)	32.606 (11)	
Average	997.385	12.045	35.467	
Range	14.749 [%]	13.45 [%]	14.749 [%]	
CV	4.474 [%]	3.848 [%]	4.474 [%]	
Deviation	44.619	0.463	1.587	
IC95%	19.555	0.203	0.695	
IC99%	25.700	0.267	0.914	

Results of Single Samples

Sample #	Max Force [cN]	Max Elongation [%]	Time [s]	Tenacity [cN/tex]
1	995	11.82	7.1	35.396
2	950	11.40	6.8	33.791
3	1027	12.36	7.4	36.512
4	1014	11.94	7.2	36.058
5	922	11.28	6.8	32.780
6	976	11.94	7.2	34.698
7	981	12.36	7.4	34.873
8	1048	12.00	7.2	37.279
9	1037	12.48	7.5	36.860
10	917	11.16	6.7	32.606
11	1011	12.54	7.5	35.954
12	1018	12.42	7.5	36.198
13	1054	12.54	7.5	37.488
14	1030	12.78	7.7	36.616
15	1012	12.48	7.5	35.988
16	1064	12.12	7.3	37.837
17	1035	12.18	7.3	36.791
18	949	11.64	7.0	33.757
19	969	11.52	6.9	34.454
20	939	11.94	7.2	33.408