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Test of Yarn Traction with MesdanLab Strength Tester

Customer Code	VTEX	Test Code	NE 16/3	Date	13/10/2022	Time 3:31:28 PM
Sample Description					Sample Number	20
Parcel		Lot	SSP 01-21		Count	5.3 [Ne]
Material						
Examiner	PHAM TRONG					
Sample Length	500 [mm]	Load cell ID/FS [kg]		3 / 12	X 1	
Clamp Speed	500 [mm/min]	Pretension		54 [cN]		
Test Machine	MesdanTensolab CRE					
Test Conditions	25C, 1 atm, 60% Rh					
Observations						

Statistical Results of the Test

	Force [cN]	Elongation [%]	Tenacity [cN/dtex]	Average Time of Breakage [s]
Maximum	4626.777 (6)	17.040 (16)	4.152 (6)	9.7 [s]
Minimum	3945.215 (14)	15.180 (14)	3.541 (14)	
Average	4300.510	16.248	3.860	
Range	15.848 [%]	11.448 [%]	15.848 [%]	
CV	4.571 [%]	3.723 [%]	4.571 [%]	
Deviation	196.561	0.605	0.176	
IC95%	86.145	0.265	0.077	
IC99%	113.214	0.348	0.102	

Results of Single Samples

Sample #	Max Force [cN]	Max Elongation [%]	Time [s]	Tenacity [cN/dtex]
1	4339	15.42	9.3	3.895
2	4185	16.86	10.1	3.756
3	4407	16.44	9.9	3.955
4	4120	15.42	9.3	3.697
5	4071	15.36	9.2	3.653
6	4627	16.92	10.2	4.152
7	4302	16.50	9.9	3.861
8	4100	16.02	9.6	3.680
9	4527	16.80	10.1	4.063
10	4457	15.90	9.5	4.000
11	4349	16.80	10.1	3.903
12	4190	16.38	9.8	3.761
13	4421	16.74	10.0	3.968
14	3945	15.18	9.1	3.541
15	4326	16.68	10.0	3.882
16	4526	17.04	10.2	4.062
17	4578	16.86	10.1	4.108
18	4083	15.90	9.5	3.664
19	4057	15.66	9.4	3.641
20	4400	16.08	9.6	3.949