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Test of Yarn Traction with MesdanLab Strength Tester

Customer Code	VTEX>	Test Code	TXP 150D	Date	6/18/2022 Time 8:22:45 AM
Sample Description	100/TM				
Parcel		Lot	TXP 01-22	Sample Number	30
Material				Count	155 [den]
Examiner	PHAM TRONG				
Sample Length	500 [mm]	Load cell ID/FS [kg]		3 / 12	X 1
Clamp Speed	500 [mm/min]	Pretension		8 [cN]	
Test Machine	MesdanTensolab CRE				
Test Conditions	22C, 1 atm, 65% Rh				
Observations					

Statistical Results of the Test

	Force [cN]	Elongation [%]	Tenacity [cN/tex]	Average Time of Breakage [s]
Maximum	685.485 (12)	22.080 (12)	39.802 (12)	12 [s]
Minimum	600.167 (20)	15.900 (20)	34.848 (20)	
Average	658.680	19.984	38.246	
Range	12.953 [%]	30.925 [%]	12.953 [%]	
CV	3.301 [%]	8.586 [%]	3.301 [%]	
Deviation	21.745	1.716	1.263	
IC95%	7.781	0.614	0.452	
IC99%	10.226	0.807	0.594	

Results of Single Samples

Sample #	Max Force [cN]	Max Elongation [%]	Time [s]	Tenacity [cN/tex]
1	630	17.10	10.3	36.557
2	671	20.28	12.2	38.948
3	673	21.78	13.1	39.062
4	682	21.60	13.0	39.575
5	652	19.26	11.6	37.866
6	655	18.96	11.4	38.037
7	672	20.82	12.5	39.005
8	674	21.06	12.6	39.119
9	660	19.32	11.6	38.322
10	664	19.98	12.0	38.550
11	666	20.28	12.2	38.664
12	685	22.08	13.2	39.802
13	662	19.68	11.8	38.436
14	659	19.98	12.0	38.265
15	671	20.34	12.2	38.948
16	674	21.30	12.8	39.119
17	645	19.14	11.5	37.468
18	640	18.48	11.1	37.183
19	666	20.82	12.5	38.664
20	600	15.90	9.5	34.848