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Test of Yarn Traction with MesdanLab Strength Tester

Customer Code	VTEX	Test Code	NE 30/3	Date	23/08/2023	Time 3:35:35 PM
Sample Description		Lot	SSO 01-21	Sample Number	20	
Parcel				Count	10	[Ne]
Material						
Examiner	PHAM TRONG					
Sample Length	500	[mm]	Load cell ID/FS [kg]	3 / 12	X 1	
Clamp Speed	500	[mm/min]	Pretension	27	[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	8.9 [s]
Maximum	2300.640 (16)	15.540 (19)	38.958 (16)		
Minimum	2090.778 (5)	13.920 (17)	35.404 (5)		
Average	2170.702	14.868	36.757		
Range	9.668 [%]	10.896 [%]	9.668 [%]		
CV	2.684 [%]	2.604 [%]	2.684 [%]		
Deviation	58.272	0.387	0.987		
IC95%	25.538	0.170	0.432		
IC99%	33.563	0.223	0.568		

Results of Single Samples

Sample #	Max Force [cN]	Max Elongation [%]	Time [s]	Tenacity [cN/tex]
1	2121	15.06	9.0	35.919
2	2111	14.88	8.9	35.753
3	2151	15.18	9.1	36.417
4	2091	15.18	9.1	35.404
5	2102	15.36	9.2	35.587
6	2139	14.94	9.0	36.218
7	2230	14.88	8.9	37.762
8	2121	14.76	8.9	35.919
9	2170	15.12	9.1	36.749
10	2139	14.70	8.8	36.218
11	2199	14.94	9.0	37.231
12	2188	14.34	8.6	37.048
13	2204	14.52	8.7	37.314
14	2301	14.82	8.9	38.958
15	2115	13.92	8.4	35.819
16	2156	14.46	8.7	36.517
17	2267	15.54	9.3	38.393
18	2216	15.06	9.0	37.529
19	2153	14.46	8.7	36.450
20	2241	15.24	9.1	37.945