

Test of Yarn Traction with MesdanLab Strength Tester

Customer Code	VTEX	Test Code	NE 30/2	Date	13/10/2022	Time 3:49:02 PM
Sample Description		Lot	SSP 01-21	Sample Number	20	
Parcel				Count	15	[Ne]
Material						
Examiner	PHAM TRONG					
Sample Length	500	[mm]	Load cell ID/FS	[kg]	3 / 12	x 1
Clamp Speed	500	[mm/min]	Pretension		19	[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	8.1 [s]
Maximum	1502.379 (10)	14.520 (12)	3.816 (10)		
Minimum	1325.859 (18)	12.900 (11)	3.368 (18)		
Average	1410.589	13.521	3.583		
Range	12.514 [%]	11.981 [%]	12.514 [%]		
CV	3.895 [%]	3.185 [%]	3.895 [%]		
Deviation	54.940	0.431	0.140		
IC95%	24.078	0.189	0.061		
IC99%	31.644	0.248	0.080		

Results of Single Samples

Sample #	Max Force [cN]	Max Elongation [%]	Time [s]	Tenacity [cN/dtex]
1	1379	13.26	8.0	3.502
2	1493	14.04	8.4	3.791
3	1452	13.62	8.2	3.689
4	1392	13.74	8.2	3.535
5	1366	13.02	7.8	3.470
6	1348	13.14	7.9	3.425
7	1410	13.62	8.2	3.582
8	1341	13.38	8.0	3.405
9	1502	13.50	8.1	3.816
10	1350	12.90	7.7	3.430
11	1494	14.52	8.7	3.794
12	1427	13.50	8.1	3.624
13	1426	13.62	8.2	3.622
14	1442	13.80	8.3	3.662
15	1449	13.62	8.2	3.682
16	1326	12.90	7.7	3.368
17	1459	13.74	8.2	3.706
18	1428	14.22	8.5	3.627
19	1345	13.08	7.8	3.418
20	1383	13.20	7.9	3.512