

Test of Yarn Traction with MesdanLab Strength Tester

Customer Code	VTEX	Test Code	TXP 150D/48F RE	Date	28/10/2022	Time	1:29:21 PM
Sample Description		Lot	THE KY	Sample Number	20	Count	150 [den]
Parcel							
Material							
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	25C, 1 atm, 60% Rh						
Observations							

Statistical Results of the Test

	Force [cN]	Elongation [%]	Tenacity [cN/dtex]	Average Time of Breakage	12.7 [s]
Maximum	678.620 (26)	23.040 (21)	4.072 (26)		
Minimum	641.355 (4)	20.040 (15)	3.848 (4)		
Average	660.086	21.219	3.961		
Range	5.646 [%]	14.138 [%]	5.646 [%]		
CV	1.633 [%]	4.656 [%]	1.633 [%]		
Deviation	10.780	0.988	0.065		
IC95%	4.724	0.433	0.028		
IC99%	6.209	0.569	0.037		

Results of Single Samples

Sample #	Max Force [cN]	Max Elongation [%]	Time [s]	Tenacity [cN/dtex]
1	650	20.22	12.1	3.901
2	641	20.52	12.3	3.848
3	663	22.26	13.4	3.978
4	663	21.30	12.8	3.978
5	653	20.28	12.2	3.919
6	670	21.60	13.0	4.019
7	667	21.18	12.7	4.001
8	649	20.04	12.0	3.895
9	655	20.22	12.1	3.931
10	669	21.78	13.1	4.013
11	646	20.28	12.2	3.878
12	658	20.64	12.4	3.948
13	667	23.04	13.8	4.001
14	658	21.12	12.7	3.948
15	649	20.40	12.2	3.895
16	649	20.58	12.3	3.895
17	678	22.74	13.6	4.066
18	679	22.86	13.7	4.072
19	664	20.88	12.5	3.983
20	674	22.44	13.5	4.042