

Test of Yarn Traction with MesdanLab Strength Tester

Customer Code	VTEX	Test Code	TXP 150/48F,	Date	25/11/2022	Time 9:11:29 AM
Sample Description		Lot	TXP 01-22	Sample Number	20	
Parcel				Count	150	[den]
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	11.7 [s]
Maximum	691.369 (17)	21.960 (17)	4.148 (17)		
Minimum	641.355 (6)	17.640 (6)	3.848 (6)		
Average	670.775	19.581	4.025		
Range	7.456 [%]	22.062 [%]	7.456 [%]		
CV	1.864 [%]	5.989 [%]	1.864 [%]		
Deviation	12.506	1.173	0.075		
IC95%	5.481	0.514	0.033		
IC99%	7.203	0.675	0.043		

Results of Single Samples

Sample #	Max Force [cN]	Max Elongation [%]	Time [s]	Tenacity [cN/dtex]
1	667	19.50	11.7	4.001
2	680	21.12	12.7	4.078
3	661	18.96	11.4	3.966
4	686	20.82	12.5	4.119
5	656	18.96	11.4	3.936
6	641	17.64	10.6	3.848
7	670	18.78	11.3	4.019
8	672	18.84	11.3	4.031
9	656	17.64	10.6	3.936
10	682	19.80	11.9	4.089
11	677	20.04	12.0	4.060
12	659	18.18	10.9	3.954
13	679	19.80	11.9	4.072
14	668	19.26	11.6	4.007
15	673	19.02	11.4	4.036
16	665	20.10	12.1	3.989
17	691	21.96	13.2	4.148
18	666	19.26	11.6	3.995
19	680	20.70	12.4	4.078
20	688	21.24	12.7	4.131