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Test of Yarn Traction with MesdanLab Strength Tester

Customer Code VTEX Test Code 150/48/1 Date 17/01/2024 Time 8:57:28 AM

Sample Description			Sample Number	20
Parcel	3	Lot	Count	150 [den]
Material	SOI SE			
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	699.214 (1)	19.620 (7)	41.953 (1)	10.8
Minimum	592.322 (17)	14.400 (17)	35.539 (17)	
Average	674.599	18.045	40.476	
Range	15.845 [%]	28.928 [%]	15.845 [%]	
CV	3.720 [%]	6.592 [%]	3.720 [%]	
Deviation	25.097	1.190	1.506	
IC95%	10.999	0.521	0.660	
IC99%	14.455	0.685	0.867	

Results of Single Samples

Sample #	Max Force [cN]	Max Elongation [%]	Time [s]	Tenacity [cN/tex]
1	699	19.50	11.7	41.953
2	671	16.92	10.2	40.246
3	684	18.12	10.9	41.011
4	699	19.26	11.6	41.953
5	673	17.82	10.7	40.364
6	698	19.08	11.4	41.894
7	691	19.62	11.8	41.482
8	675	18.48	11.1	40.482
9	658	17.70	10.6	39.482
10	638	16.80	10.1	38.305
11	658	17.34	10.4	39.482
12	691	18.66	11.2	41.482
13	670	17.46	10.5	40.188
14	686	18.06	10.8	41.188
15	685	18.48	11.1	41.070
16	693	19.20	11.5	41.600
17	592	14.40	8.6	35.539
18	664	17.52	10.5	39.835
19	679	17.94	10.8	40.717
20	687	18.54	11.1	41.247