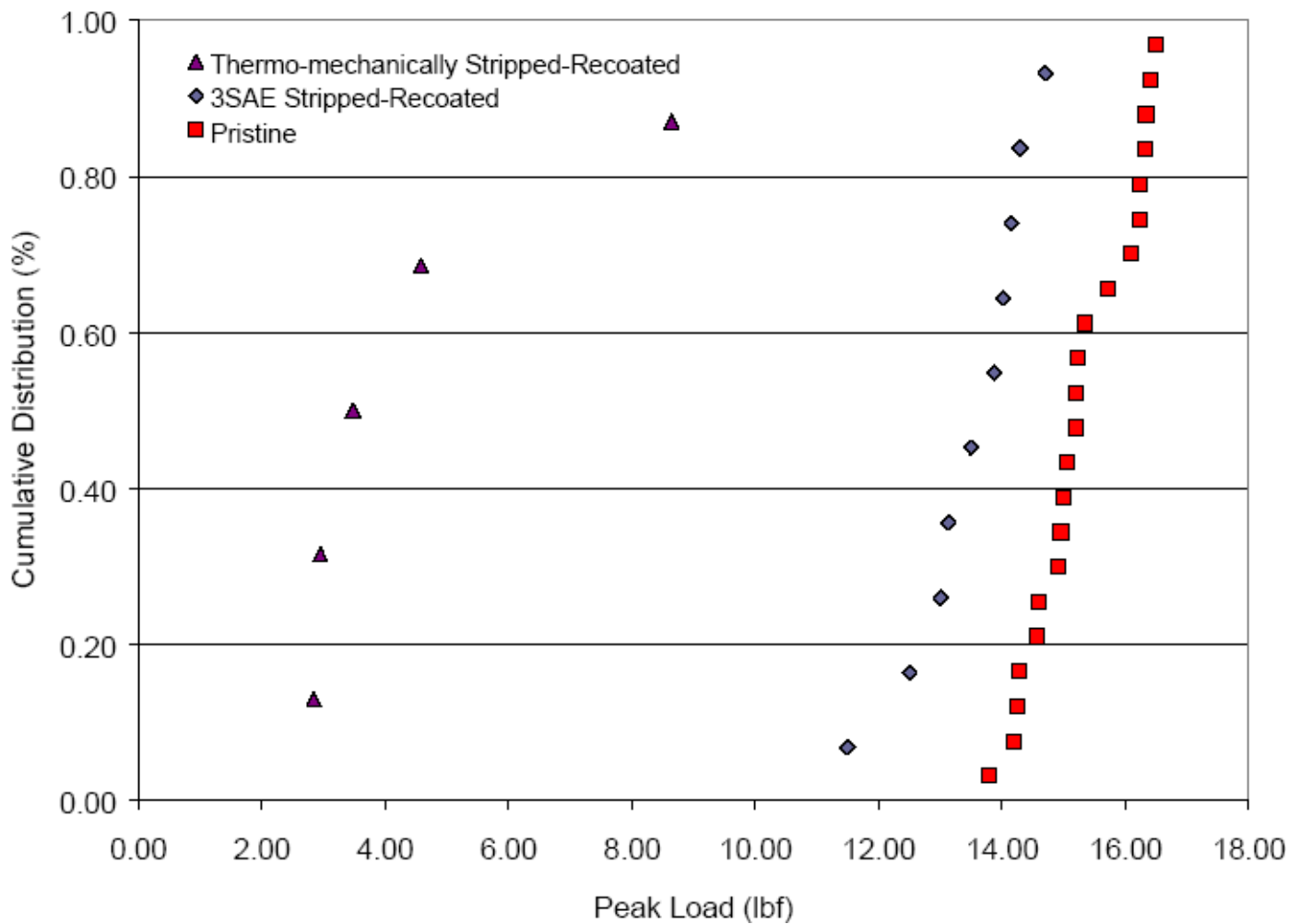


Independent tensile strength testing results performed by the Universal Instruments Advanced Process / Surface Mount Technology Laboratory in Binghamton, NY.

### Fiber Tensile Strength (25 lb/min loading)



[Test performed by the Universal Instruments Advanced Process / Surface Mount Technology Laboratory in Binghamton, NY.](#)

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## DYNAMIC MAIN

### Dynamic Tensile Tests

- 3SAE Stripped

Sr. No.	Fiber No.	%RH	Peak Load (lbf)	Per Fiber (lbf)	Broke Where?	Cumed
1	1	58	22.986	11.493	Broke inside	0.07
2	2	58	25	12.5	Bottom side in	0.16
3	3	58	26	13	Bottom side in	0.26
4	4	58	26.27	13.135	Top side in	0.36
5	5	58	27	13.5	Outside	0.45
6	6	58	27.75	13.875	Bottom side in	0.55
7	7	54	28.03	14.015	Outside	0.64
8	8	56	28.3	14.15	Outside	0.74
9	9	53	28.58	14.29	Bottom side in	0.84
10	10	57	29.4	14.7	Outside	0.93

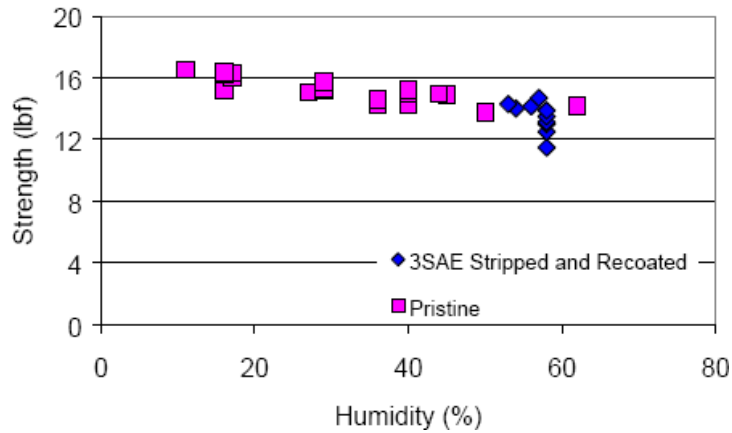
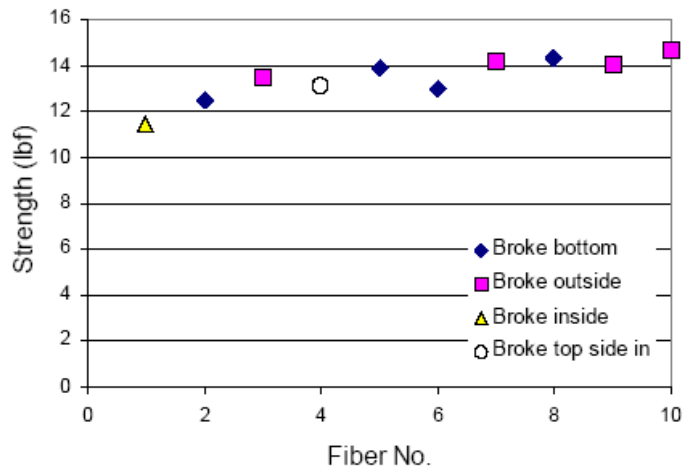
- Pristine

Sr. No.	Peak Load (lbf)	%RH	Cumed
1	13.78	50	0.03
2	14.18	62	0.08
3	14.24	40	0.12
4	14.28	36	0.17
5	14.57	36	0.21
6	14.59	36	0.25
7	14.91	45	0.30
8	14.95	44	0.34
9	15.00	40	0.39
10	15.06	27	0.43
11	15.20	40	0.48
12	15.20	29	0.52
13	15.23	16	0.57
14	15.35	29	0.61
15	15.72	29	0.66
16	16.08	17	0.70
17	16.22	16	0.75
18	16.23	16	0.79
19	16.31	16	0.83
20	16.33	17	0.88
21	16.40	16	0.92
22	16.50	11	0.97

[Test performed by the Universal Instruments Advanced Process / Surface Mount Technology Laboratory in Binghamton, NY.](#)

From splicing exp 4: Stripped and Re-coated fibers

rank	load (lbf)	cumed prob
1	2.84	0.13
2	2.95	0.31
3	3.47	0.50
4	4.58	0.69
5	8.65	0.87

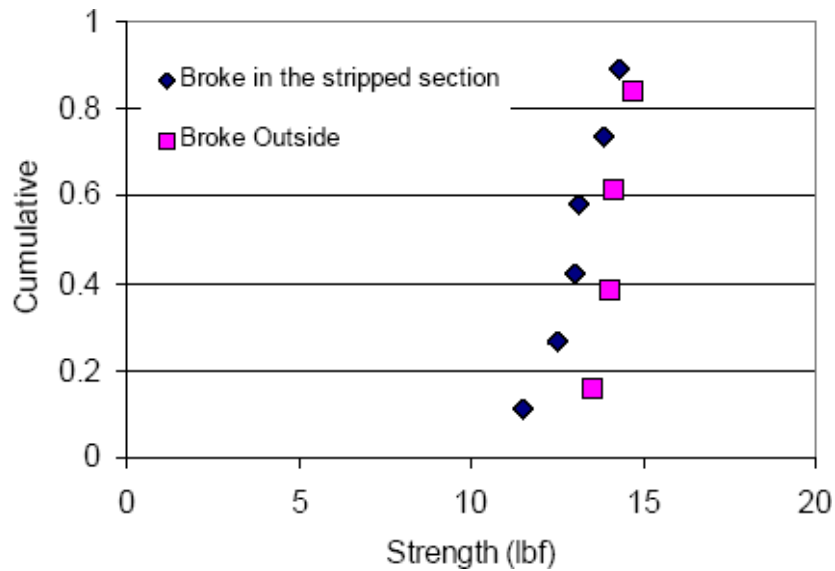


[Test performed by the Universal Instruments Advanced Process / Surface Mount Technology Laboratory in Binghamton, NY.](#)

**DYNAMIC 2**

1	22.986	11.493	0.109375
2	25	12.5	0.265625
3	26	13	0.421875
4	26.27	13.135	0.578125
5	27.75	13.875	0.734375
6	28.58	14.29	0.890625

1	27	13.5	0.159091
2	28.03	14.015	0.386364
3	28.3	14.15	0.613636
4	29.4	14.7	0.840909



[Test performed by the Universal Instruments Advanced Process / Surface Mount Technology Laboratory in Binghamton, NY.](#)

**STATIC MAIN**

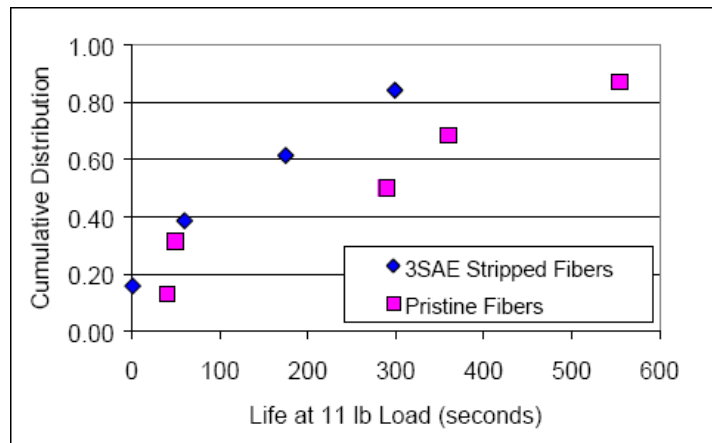
**Static Tensile Tests**

• **3SAE Stripped**

Sr. No.	Fiber No.	Life (sec)	%RH	Broke Where?	Cumed
1	14	1	56	Bottom side in	0.16
2	12	60	56	Bottom side in	0.39
3	15	175	55	Outside	0.61
4	13	299	55	Bottom side in	0.84

• **Pristine**

Sr. No.	Life (sec)	%RH	Cumed
1	40	60	0.13
2	50	60	0.31
3	290	55	0.50
4	360	60	0.69
5	555	56	0.87



[Test performed by the Universal Instruments Advanced Process / Surface Mount Technology Laboratory in Binghamton, NY.](#)