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M. Tarafder

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. , , (flexural

rigidity), (torsional rigidity), , ,

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가 .

Pillay

가

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가

가

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Barella

가

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가 . (Terylene)/

M. S. Parthsarathy

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J. P. Rustand S. Peykmian

가

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가

가

A. Barella J. P. Vigo -

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< 2>, < 3> .

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	(Ne)	
	30, 20	30 K, 20 K
	55, 20	55 C, 20 C
/	40	40 P/V

< 2>

	2.5% SL (mm)	(mic)	(%)	(g/tex)
20 K, 20 C, 30 K	28.5	3.70	48.00	21.10
50 C	30.0	3.55	48.10	22.30

< 3>

		(%)	(mm)	(denier)
40 P/V		65	38	1.2
		35	38	1.2

2)

: , < 4>

□ Autoconer-338

□ EYC 가 RJK-IDD-90

< 4>

	Autoconer-338	RJK-IDD-90
(m/min)	1,200	550
	1,400	650
	1,600	750

3)

ASTM

, Uster Tester 3

H

< 5> Autoconer-338

(H) CV% (Uster Tester 3)

			Autoconer-338					
	(H)	CV%	1,200 m/min		1,400 m/min		1,600 m/min	
			(H)	CV%	(H)	CV%	(H)	CV%
30 K	5.92	2.53	7.59	2.79	7.34	2.43	7.59	2.97
20 K	6.59	3.33	8.28	2.49	8.34	2.71	8.35	2.47
55 C	3.80	4.28	4.10	3.65	4.10	4.43	4.26	3.05
20 C	6.81	2.09	8.02	2.14	8.14	2.35	8.36	2.38
40P/V	4.40	2.94	5.34	3.10	5.52	3.38	5.63	3.45

< 6> RJK-IDD-90

(H) CV% (Uster Tester 3)

			RJK-IDD-90					
	(H)	CV%	550 m/min		650 m/min		750 m/min	
			(H)	CV%	(H)	CV%	(H)	CV%
30 K	5.92	2.53	7.12	2.89	7.18	2.26	7.53	3.76
20 K	6.59	3.33	7.92	3.08	8.08	2.82	8.37	3.86
55 C	3.80	4.28	3.96	3.14	4.00	3.72	4.10	3.44
20 C	6.81	2.09	7.80	2.51	8.12	2.48	8.40	2.68
40P/V	4.40	2.94	5.44	2.90	5.49	3.66	5.60	3.64

< 7> t- “t”

	Autoconer-338 (m/min)			RJK-IDD-90 (m/min)		
	1,200	1,400	1,600	550	650	750
30 K	-19.853	-19.797	-17.836	-15.486	-17.316	-21.675
20 K	-25.965	-20.633	-19.619	-13.133	-15.584	-12.647
55 C	-4.847	-4.259	-6.274	-2.410	-2.343	-4.594
20 C	-15.132	-28.435	-17.107	-24.408	-13.622	-16.105
40P/V	-18.740	-26.079	-16.878	-14.295	-15.423	-15.907

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가

< 7>, < 8> 95% ($\alpha_{0.05}$) t-

가 < 9>, < 10>
 95% ($\alpha_{0.05}$) t-

< 8>

	Autoconer-338 (m/min)			RJK-IDD-90 (m/min)		
	1,200	1,400	1,600	550	650	750
30 K	S	S	S	S	S	S
20 K	S	S	S	S	S	S
55 C	S	S	S	S	S	S
20 C	S	S	S	S	S	S
40P/V	S	S	S	S	S	S

* S – Significant NS – Not significant

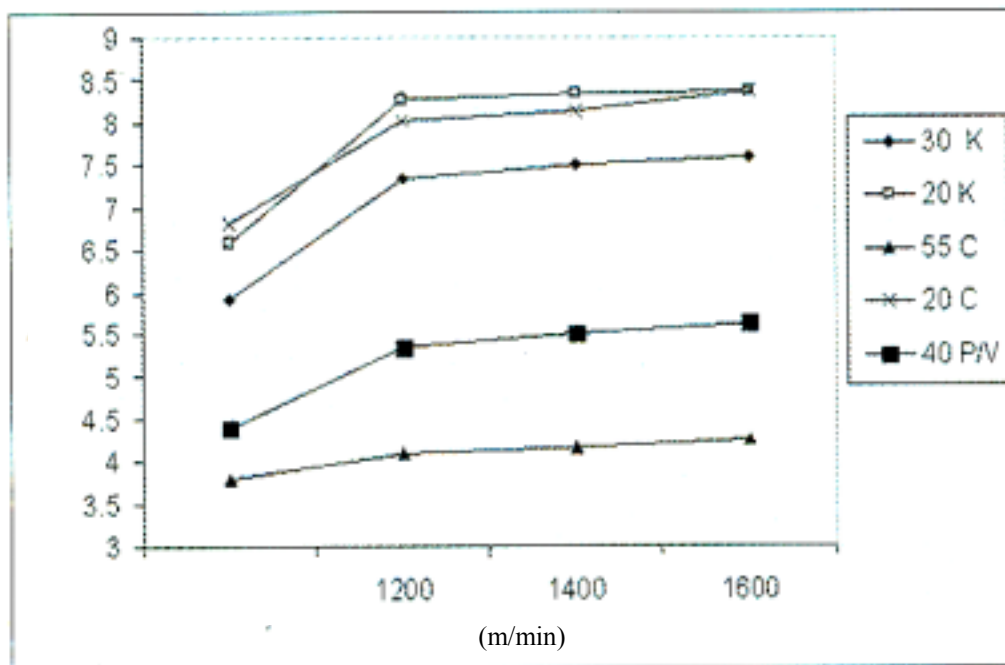
< 9> t- “t”

	Autoconer-338 (m/min)		RJK-IDD-90 (m/min)	
	1,200 1,400	1,400 1,600	550 650	650 750
30 K	2.8462	-2.6755	-0.8091	-3.4136
20 K	-0.6193	-0.1135	-1.5155	-2.3655
55 C	-0.0269	-2.2641	-0.6854	-1.5123
20 C	-1.5780	-2.6034	-3.5577	-2.9548
40P/V	-2.2218	-1.2937	-0.5815	-1.2259

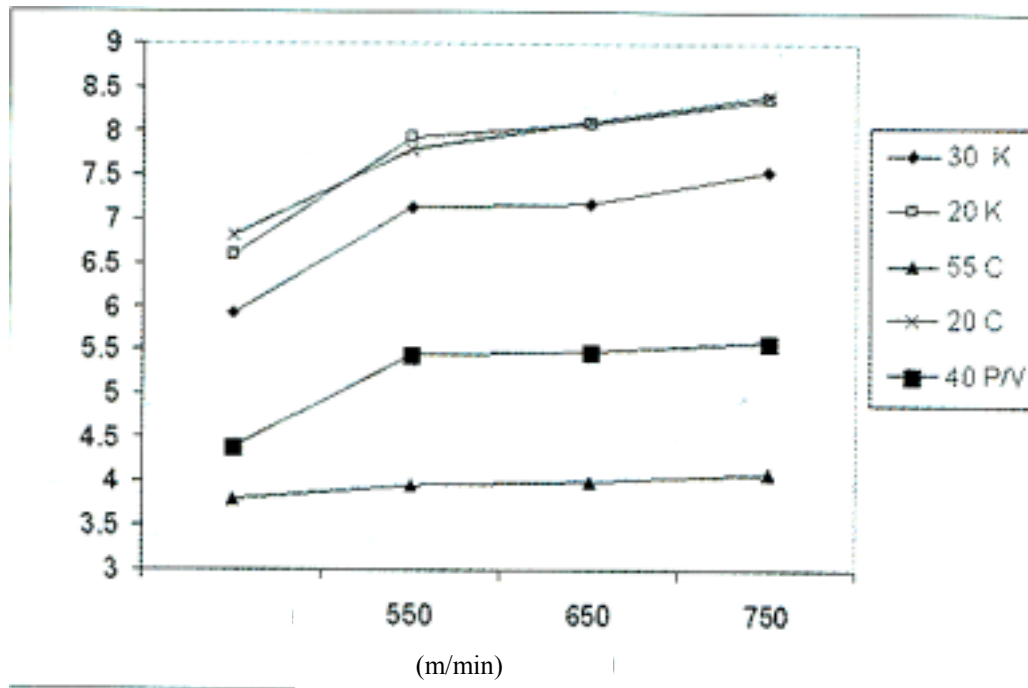
< 10>

	Autoconer-338		RJK-IDD-90	
	(m/min)		(m/min)	
	1,200 1,400	1,400 1,600	550 650	650 750
30 K	S	S	NS	S
20 K	NS	NS	NS	S
55 C	NS	S	NS	NS
20 C	NS	S	S	S
40P/V	S	NS	NS	NS

* S – Significant NS – Not significant



< 1> 가 (Autoconer-338)



< 2> 가 (RJK-IDD-90)

3.

< 5> < 6> < 1> < 2>

가 . < 7>, < 8>

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가 가 가 .

1,600 m/min 20 C 22.76%, 55 C 12.11% 가

가 30 K 28.21%, 20 K 26.71% 가 .

Autoconer-338 1,200 m/min 1,400 m/min

가 가 . RJK-IDD-90 750 m/min

20 C 23.35%, 55 C 7.89% 가 ,

RJK-IDD-90
 550 m/min 650 m/min 가
 Autoconer-338 1,200 ~ 1,400 m/min 1,400 ~ 1,600 m/min
 가
 < 5>. 1,200 m/min 1,400 m/min 30 K 40 P/V
 가가 . < 9>, < 10>
 1,400 m/min 1,600 m/min 30 K, 55 C 20 C 가가
 RJK-IDD-90 550 m/min, 650 m/min
 750 m/min 가 가 가
 550 m/min 650 m/min 650 m/min
 750 m/min 가 20 C 가가
 650 m/min 750 m/min 가 가 30 K 20 K
 가 ,
 가 . Autoconer-338
 RJK-IDD-90 가
 (air drag
 force)
 (20's) 가 ,
 (short staple)가

4.

☐ Autoconer-338 RJK-IDD-90

가

☐ Autoconer-338 1,200 m/min 1,400 m/min

1,600 m/min 가 ,
RJK-IDD-90 .
□ 가 .