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Table 1 Effect of twist on uniformity^a and Imperfection^b of a 36/1 yarn of various cotton/polyester blends.^b

Twist Multiplier	Blend									
	100C		80C/20P		65C/35P		50C/50P		35C/65P	
	Coef- ficient of Varia- tion %	Imper- fections	Coef- ficient of Varia- tion %	Imper- fections	Coef- ficient of Varia- tion %	Imper- fections	Coef- ficient of Varia- tion %	Imper- fections	Coef- ficient of Varia- tion %	Imper- fections
2.50									18.7	480
2.75							19.3	382	18.7	467
3.00					20.2	483	19.3	420	18.8	474
3.20			20.9	510	20.2	495	19.4	452	18.8	512
3.43			20.8	545	20.5	570	19.7	507		
3.55	22.5	701	20.8	541	20.6	591	19.7	435	18.8	503
3.80	22.8	799								
3.93	22.8	729	21.0	648	20.5	630	19.9	545	18.9	611
4.08	22.7	748								
4.25	22.8	779	21.3	708	20.8	697	20.1	594	18.7	621
4.55	22.9	921	21.6	733	20.6	727				
4.75	22.9	943	21.6	692						

^a Measurements from an Uster Evenness Tester.

^b Medium staple cotton(11/16 staple length) blended with high-modulus polyester(1.5-in. length and 1.5 denier).

3.80TM 3.20TM , 65c/35p 3.55TM 2.81TM

Twist Multiplier	Blend			
	80C/20P		65C/35P	
	Coefficient of Variation, %	Imperfections	Coefficient of Variation, %	Imperfections
3.20	21.1	405		
3.80	21.6	533		
(3.8-0.6)=3.20	20.8	388		
2.81			20.1	356
3.55			20.9	531
(3.55-0.74)=2.81			19.9	358

2.25

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Uster Evenness Tester

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