

가 (1)

가 (PET. PBT. CD)
(Nylon 6, Nylon 66, Nylon 610) (Regular
Viscose, Polymosic) .

가가 가

가 가 .

가

가 ,

가 가 .

가 가 가 Bulky ,

loop (linen like) , (slub)

가가 ,

.

, 가 가

, (undrow yarn) (partially
oriented yarn)

. 가

NSY(non size yarn) 가 (Producer sized yarn)

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1.1

1)

· 1964 () Hooke

가

· 1884 (佛) Chardonnet

Rayon

· 1928 Du Pont Wallance H. Carothers

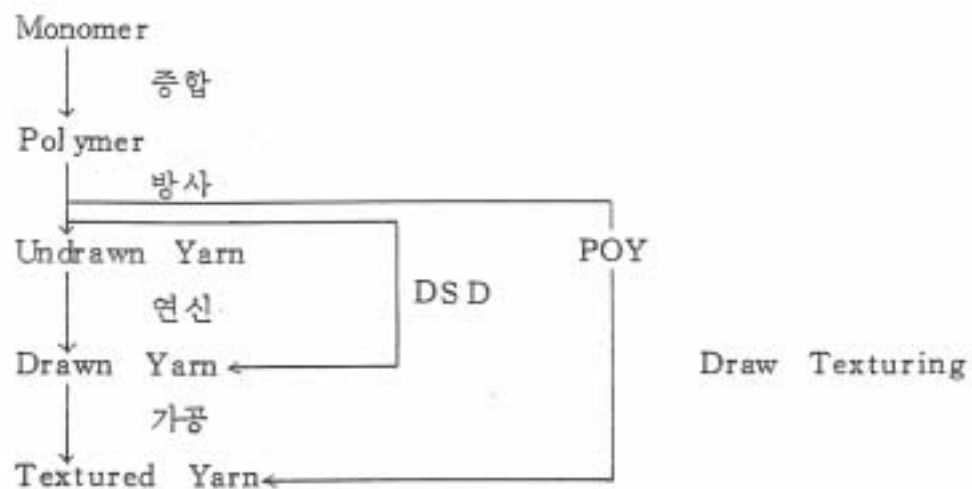
(1938)

· 1942 Du Pont, Acryl

· 1953 Calico Printers' Asscoiation (J. R. Whinfield, J. T. Dickson)

(CPA → ICI → Du Pont)

2)



· 가 (Additional Polymerization)

· (Polycondensation)

· (Co-Polymerization)

- (Dry Spinning)
- (Wet Spinning)
- (Melt Spinning)

3)

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	Rayon	Nylon-6	Polyester	Acryl
	Pulp	ϵ -Caprolactam	DMT(PTA)+EG	AN-Monomer
-	11%	4.5%	0.4%	2.0%
-	1.50~1.52	1.14	1.38	1.28
-	2.5g/a	4.5~6g/a	4.5~6g/a	2.5~4g/a
-	18~24%	28~45%	20~30%	25~45%
	Carval, Topel	Perlon-L.	Fortrel	Cashimilon
	Avril	Perlon	Kodel	X-lan
	, ,	, 가 ,	, (,	, (Wool-like)
	()	(, ,)		

4) SI

< 2>

SI

	SI			
	millimeter	mm	inch	25.4
	meter	m	yard	0.914
	centimeter	cm	inch	2.54
	millimeter	mm	inch	25.4
	centimeter	cm	inch	2.54
	millimeter	mm	inch	25.4
	millimeter	mm	inch	25.4
	tex	tex	denier	0.1111
	millitex	mtex	denier	111.1
	decitex	dtex	denier	11.11
	kilotex	ktex	denier	0.00011
	micrometer(micron)	μm	$\frac{1}{1,000}$ inch(mil)	25.4
	millimeter	mm	inch	25.4
	number per centimeter	picks/cm	picks/inch	0.394
	number per centimeter	ends/cm		0.394
	millimeter	mm	inch	25.4
	number per centimeter	courses/cm	course/inch	0.394
	number per centimeter	wales/cm	Wales/inch	0.394
	(threads per centimeter)	(threads/cm)	(threads/inch)	0.957
()	$\sqrt{\text{tex}} \times 10^{-1}$	$\sqrt{\text{tex}} \times 10^{-1}$	$\sqrt{\text{tex}} \times 10^{-1}$	$\sqrt{\text{cotton count}}$
	grammes per square meter	g/m^2	Oz/yd ²	33.9
	turns per meter	turns/m	turns/inch	39.4
	turns per centimeter	turns/cm	turns/inch	0.394

	(turns per centimeter) $\sqrt{\text{tex}}$	(turns/cm) $\sqrt{\text{tex}}$	$\frac{(\text{turns/inch})}{\sqrt{\text{cotton count}}}$ $\frac{(\text{turns/inch})}{\sqrt{\text{worsted count}}}$	9.57 11.70
	millinewton newton	mN N	gf kgf	9.81 9.81
	newton	N	lbf	4.45
	millinewtons per tex	mN/tex	gf/den	88.3
	millinewtons per tex	mN/tex	gf/den	88.3
	kilonwetons per square meter	kN/m ²	lbf/in ²	6.89
	millinewtons square millimetres	mN/mm ²	gf/mm ²	9.81

5)

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	Wool Silk		
	Cotton Linnen Viscose Rayon		() ()
	Acetate Modeacryl Nylon, Polyester Acryl	1~2 ^	.

6)

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Coil, Curl, Crimp, loop

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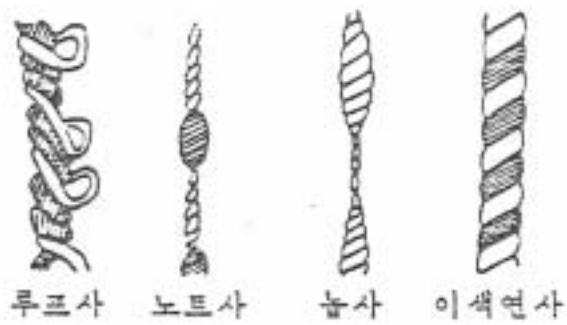
· Blade

· Stutter box

· Knife-Deknife

Air Textured

7)



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1.

< 4> Nylon

		(D)					
		40	10, 13	SD	22kg/12	, 가 , stocking	
		70	24, 34, 48	SD, Brt	22~30kg/12	, ,가	
		100	24, 34, 48	SD	24, 30kg/12	"	
		210	24, 48	SD, Brt	22kg/12	"	
		420	48	SD, Brt	"	"	
		20	9	Brt	24kg/12		
		40	9, 13, 24	Brt	"	,	
		70	24	Brt	"	"	
		40	10, 13	SD, Brt	"	,	Brt
		70	24, 34	SD	"	"	
	Finelon	15	1	SD	24kg/24	"	
		20	1	SD	"	"	
	Sized Yarn	70	12	SD	30kg/12	()	
		70	24, 28	SD	30kg/6Drum	()	
	Mixed Yarn	90	33	Brt	18kg/12	, 가	

			210	24	Brt	22kg/12		
			420	48	Brt	"	"	
		Spun Like	475	48		24, 36kg /12Cheese		
			950	96		"	"	
			1500	120	SD	"	"	
		N-66	20	7	SD	22, 24kg/12	가 , Stoking	
			40	13, 34	SD	"	가 , , , Stoking	
			70	24, 34	SD	"	가 , ,	
			100	24, 34	SD	"	"	
		DTY	17	1	SD	"	Stocking	
		POY	40	14	SD	30kg/6Drum	Stocking	
			225	15	SD	30kg/4Drum	()	
	300	15	SD	"	"			
			210	24	Brt	25,26kg/20		
			420	48	Brt	"	"	"
			630	72	Brt	"	"	"
			840	96,136	Brt	24kg/15	, Tire Cord,	"
			1050	136	Brt	20kg/12	"	"
			1260	204	Brt	"	"	"
			1680	272	Brt	"	"	"
			1890	305	Brt	"	"	"

< 5> Polyester

			(D)					
	P / F		30	18, 24	SD, Brt	30kg/12	, , 가	
			35	18, 24	SD, Brt	"	"	
			50	24, 36	SD, Brt	"	"	
			75	18, 24, 36, 48	SD, Brt	27kg/9	"	
			100	24, 36, 48	SD, Brt	"	"	
			125	24, 36, 48	SD, Brt	"	"	
			250	30, 48	SD, Brt	"	"	
			150	48	SD	"	"	
			3	30	Brt	30kg/12	"	
				35	Brt	"	"	
				50	Brt	"	"	
				75	Brt	27kg/9	"	
				100	Brt	"	"	
			3	75	SD	"	"	
				100	SD	"	"	
				150	SD	"	"	
				125	SD	"	"	
			High	75	SD	"	"	

			Multi	150	96	SD	"	"	
			Cation 가 (Dylon)	75	24	Black	27kg/9	’ , 가	
				75	24, 36	SD	"	"	
				100	24, 36, 48	SD	"	"	
				150	30, 48	SD	"	"	
			Multi Dylon	150	32, 48	SD	"	"	
			Multi Tone	150	32, 48	SD+ Black	"	"	
			Silk Like	80	48	Brt	"	"	
				100	48	Brt	"	"	
			Spun Like	230	85	SD	30kg/12cheese	,	
				355	110	SD	"	"	
				75	24, 36	SD	35~42kg /12cheese	"	
	D			100	24, 36	SD, Spk	"	"	
	T			150	30, 48	SD	38~41kg /12cheese	"	
	Y			115	34, 36, 2	SD	288kg/32Drum	가	POY
	.			225	48, 8	SD	324kg/24Drum	"	"
	P			230	48	SD	"	"	"
	O			275	30	SD	240kg/24Drum	"	"
	Y								
			Sized Yarn	150	48	SD	40kg/12cheese	"	"
				500	96	Brt	25kg/9	Tire Cord	

	1000	192	Brt	"	"	"
	1100	192	Brt	"	"	"
	1500	250	Brt	"	"	"

2.

< 6>

P/F

AA	3.0kg ()		
A1	2.5kg ≤ < 3.0kg()		
A2	2.0kg ≤ < 2.5kg()		
B	1.0kg ≤ < 2.0kg		
C	0.3kg ≤ < 1.0kg()		

DTY

AA	3.0kg, 3.29kg, 3.34kg, 3.42kg/cheese		
A1	1kg		
C	1kg		

N/F(70/24-200)

AA	2.5kg		

A1	1.2kg ≤ < 2.5kg		
B	0.5kg ≤ < 1.2kg	WRAP , 0~5	
C	0.1kg ≤ < 0.5kg	WRAP , 6	