



SHINKONG SYNTHETIC

FIBERS CORPORATION



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新隆

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Share innovative knowledge with differentiated fiber products.



SHINKONG™

Shinkong Synthetic Fibers Corporation(SSFC) was founded and partners in 1967. Toray Industries Inc. and Mitsubishi Corporation provided the initial capital investment of NT\$16.5 billion. A number of capital increments had been carried out since then, making SSFC a Category 1 listed company registered on the Taiwan Stock Exchange with a total paid-in capital of NT\$23 billion by the end of 2014. We are a large corporation with about 2,000 employees, over 121,000 shareholders, and total assets worth NT\$150 billion.

The first SSFC plants were completed in May 1970, and we have since then underwent multiple expansions. As of 2015, SSFC owns 3 main manufacturing sites in Taiwan that occupy 444,000 square meters with generate a total production output of up to 2,535 tons per day. Production plants have also been established in Mainland China and Thailand. SSFC products can be largely divided into 2 main categories – polyester fibers and polymers. Our main product categories include partially oriented yarn (POY), polyester filament yarn, fully drawn yarn (FDY), polyester staple fiber (PSF), polyester draw textured yarn (P-DTY), industrial yarn, polyester pellets, PET bottle grade resin, PET bottles, PET bottle preforms.

SHINKONG GROUP ●●●●●



SHINKONG SYNTHETIC

FIBERS CORPORATION



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RECOTEX

An environment-friendly fiber

We evaluated the energy use and CO2 emissions that result from the following demonstration.

THE ORIGINAL PROCESS :

Production of non-recycled PET yarns from virgin PTA energy and CO2 emissions.

Energy use (MJ/1MT PET)	CO2 emissions (MJ/1MT PET)	Process
33,664	3.075	1.PTA&EG energy use 2.Polymerization 3.POY (spinning) energy use 4.DTY(Texturization) energy use

THE RECYCLING PROCESS :

Production of recycled yarn from postconsumer bottles.

Energy use (MJ/1MT PET)	CO2 emissions (MJ/1MT PET)	Process
16,430 Saving the energy use (51.19%)	1.273 Saving the CO2 emission (58.60%)	1.Polymerization 2.POY (spinning) energy use 3.DTY (Texturization) energy use



HEAVY METAL FREE

HEAVY METAL FREE is always applied in the process of polymerization. Although it remains less in the end products, it might cause environment polluted.

The European Union has legislation that antimony (Sb) content of the textile must be lower than 30ppm for applying the certificate of "ECO labels". SSFC has developed a new polymerization process by using Sb-free catalysts which contains no heavy metal to meet the requirements of the EU market.

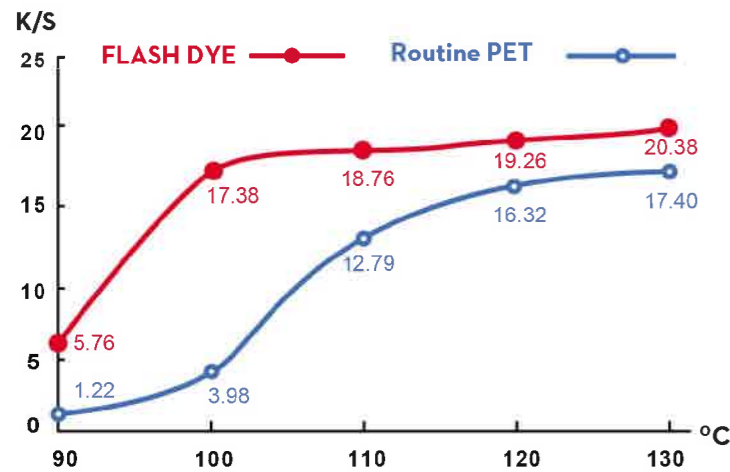
The Sb-free polyester yarn can be used for many applications with other functional fibers such as Quickdry Fiber, UV-free Fiber, Anti-bacteria Fiber and Flame Retarded Fiber, etc. Its physical property is remains unchanged.

FLASH DYE

CHARACTERISTICS

FLASH DYE is a modified polyester developed by SHINKONG. It can be dyed dark with disperse dyes at 100°C and in superior in dye fastness.

- Deep dyeable
- Quick coloring
- High color fastness
- Better dyeing evenness
- Reduce dyeing energy costs
- Low dyeing temperature can prevent damages when blending with spandex or natural fibers.



COLOR FASTNESS

Test Item	Color change rating	Test Results			
		Dyeing Temp. 100 °C		Dyeing Temp. 130 °C	
		Routine	Flash Dye	Routine	Flash Dye
Wash - resistance	Wool	4-5	4	4	4
	Acrylic	4-5	4-5	4-5	4-5
	Polyester	4-5	4-5	4-5	4-5
	Nylon	4-5	4-5	4-5	4-5
	Cotton	4-5	4-5	4-5	4-5
	Acetic acid	4-5	4-5	4-5	4-5

TEST METHODS

ISO 105-C06 : 2010 AIS / Temp : 40 °C / Liquor Volume : 150 ml / Steel Balls : 10 pcs / Size : 4x10 cm



DYESTUFF : YB-XFN 0.5% Ru-XFN 0.2% BK-HwTC 3%
 FLASH DYE POLY ESTER YARN's percentage of dye exhaustion is nearly zero under dyeing at 100°C x 30 MIN
 But regular PET yarn don't !

BIO-MEG

Plant-based PET

There are great impacts when we use fossil fuels as it significantly devastate planet's biodiversity, climate and other natural systems.

Sustainably managing our natural resources and finding alternatives to fossil fuels are both business and environmental imperatives. For the purpose of reducing the dependence on petroleum-based plastics ; Shinkong has built up its new technologies to produce PET plastics from plants (BIO-MEG).

The plant-based PET is made from sugarcane-based bioethanol ; its characteristics is almost the same as the conventional oil-based PET. Therefore, it can be used as an alternative without any trouble.

COMPETITIVE EDGE OF Bio-PET FOR END USER

Same quality as petroleum products

Can use existing facilities

Can use existing recycling system

No stress for end users to switch to Bio-PET from petrochemical PET



SHIN Σ

Bulky , Stretch , Lightweight

SHIN Σ is a kind of specialty polyester yarn with good stretch. It's excellent structural stability, soft and bulky hand feel are good for applying with other functional fibers such as UV-cut, Anti-Transparency, quick-dry and moisture absorbing fibers, etc. SHIN Σ is the one could easily fit those multifunctional fabrics requirement.

CHARACTERISTICS

- Comfortable stretch and recoverability
- Dimensional stability
- Anti-UV
- Anti-transparency

SPECIFICATIONS

40/48 , 60/72 , 130/144 , 75/72 , 100/96 , 150/144
75/72 CD 50% , 150/144 CD 50% , 100/144 CD 50%

SHIN FIT

Elastic , Soft , Dry

Combing special polyester polymer, SHIN FIT is a new stretchable filament manufactured by SHINKONG. This fiber is designed for excellent elasticity, soft feel and quick drying.

Compare to natural or general synthetic fiber, SHIN FIT owns better shrinkage, color fastness and higher tendency to pill. Due to its superior performance at quick dry, UV blocking, thermal insulation functions, stretch and recovery, SHIN FIT is perfectly suited to a wide variety of applications from designer clothes to sportswear.

CHARACTERISTICS

- Excellent elasticity
- High moisture wicking to stay dry and comfortable
- Soft and bulky hand feel
- Outstanding pilling resistance
- Superior UV PROTECTION

SHIN SPAN

MAGICAL ELASTICITY FILAMENT

SHIN SPAN yarn is a newly developed specialty textured yarn, produced through a special spinning process to make its excellent features of high elasticity and good elongation. Since the yarn retains excellent elasticity and recovery even after dyeing process, it could be extensively used in elastic textile products such as woven fabrics, knit fabrics and warp knit fabrics.

CHARACTERISTICS

Fabric is to have excellent elastic and recoverability after dyeing and finishing process.

SPECIFICATIONS

30/24 , 50/36 , 50/48 , 75/36 , 75/48 , 75/72 , 150/72 SD DTY , 50/60 2-tone 80/72 2-tone

APPLICATIONS

Work wear / Shirts Coats / Culottes Suits / Underwear / Exercise wear / POLO shirts
Hats / Gloves / Socks



COOL TOUCH SERIES

CoolTouch™ is newest developments in perspiration absorbing fibers. Various cross-section designs have been adapted to three product series of CoolTouch™- I, CoolTouch™- II, and CoolTouch™- III. In addition to excellent perspiration absorbing functions, these products also provide quick drying effects. Each of series offers unique texture and touch that sets them apart from the others.

SPECIFICATIONS

Item	Specs (Den/Fil)	Luster
CoolTouch™- I (+ type)	75/48 , 75/72 100/72 , 75/48/2	Semi Dull , Full Dull , CD
CoolTouch™- II (Y type)	75/96 , 150/192	Semi Dull , Full Dull , CD
CoolTouch™-III (wave type)	50/72 , 75/72 , 100/72 50/72/2 , 75/72/2 100/72/2	Semi Dull , Full Dull , CD

APPLICATIONS

Casual sportswear / polo shirts / jackets / undergarments and other applications of knitted or woven fabrics.

CoolTouch™ - I (+ type)

is a typical product of this family having a '+' shape profile exhibiting a balance of performance and hand.

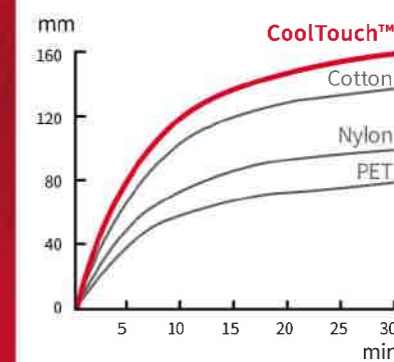
CoolTouch™ - II (Y type)

is 3-channel micro polyester fiber having a 'Y' shape profile, which is designed when greater softness is needed.

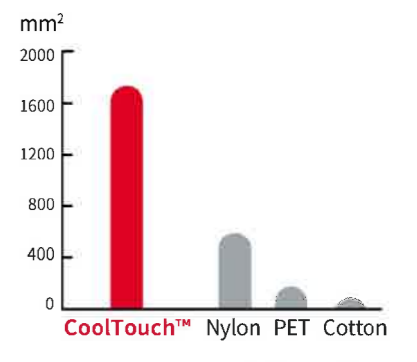
CoolTouch™ - III (wave type)

has a unique profile with multi channels which is designed to imitate the profile of rayon. CoolTouch™ - III gives a special cotton-like hand feel while still maintaining excellent moisture management performance.

CoolTouch™ Wicking Height



CoolTouch™ Diffusion Ability



COOL TOUCH THERMO

CHARACTERISTICS

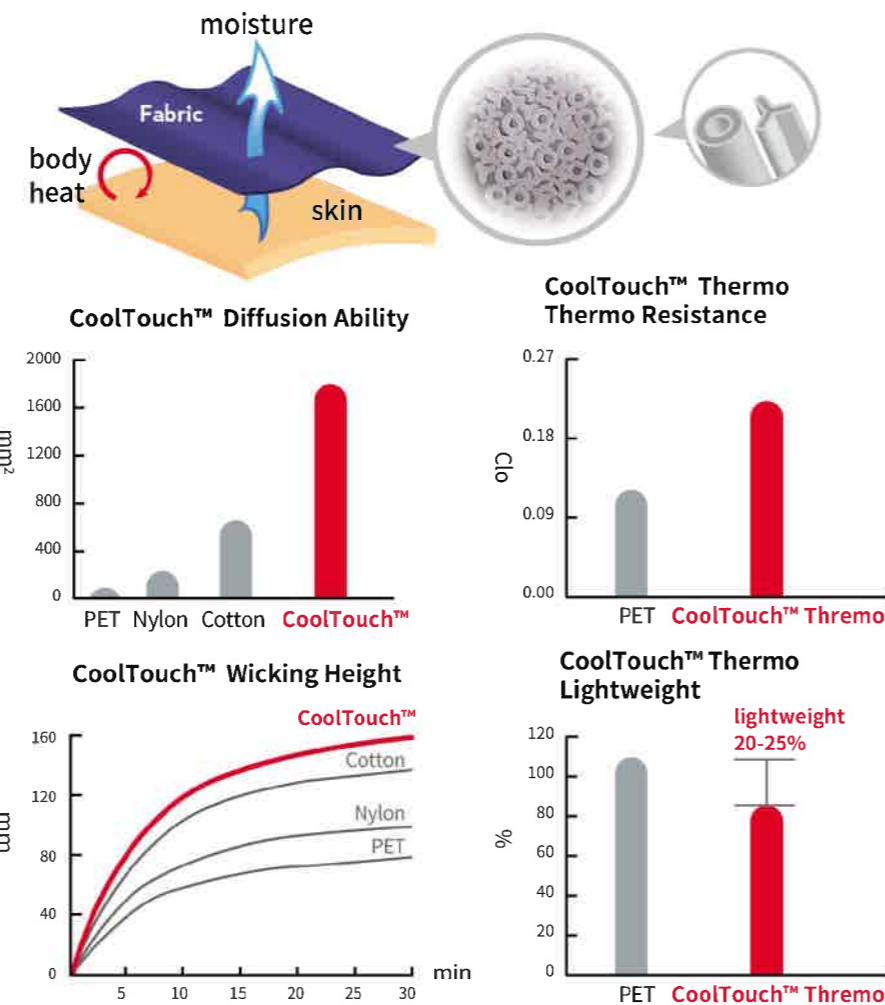
CoolTouch™ is SSFC's newly developed fiber with characteristics of perspiration absorbing / quick-dry ; it is designed with specific cross-section and including three series " CoolTouch™ - I , CoolTouch™ - II , CoolTouch™ - III ". Those yarns are not only with excellent quick-dry feature but also has excellent hand feel.

COOL TOUCH THERMO is another specialty yarn with multifunction such as perspiration absorbing, quick-dry, lightweight and warm-keeping. The hollow shape of fiber has excellent performance of warm-keeping ; the textile made of this yarn gives very nice soft hand feel like fleeciness.

This yarn has passed the warm-keeping value (clo) inspection of ASTM-D-1518-85 ; it is suitable for the applications of sportswear and outdoor wear.

PRODUCT TEST

- Diffusion Ability-Diffusion area of drop of 0.2ml water in 30 sec (by TTRI)
- Wicking Height- JIS L1096-1990 6.26.1B (by TTRI)
- Thermo Resistance-ASTM D 1518-1985 (by TTRI)



SHIN SOFT 4T

All Functions In One

CHARACTERISTICS

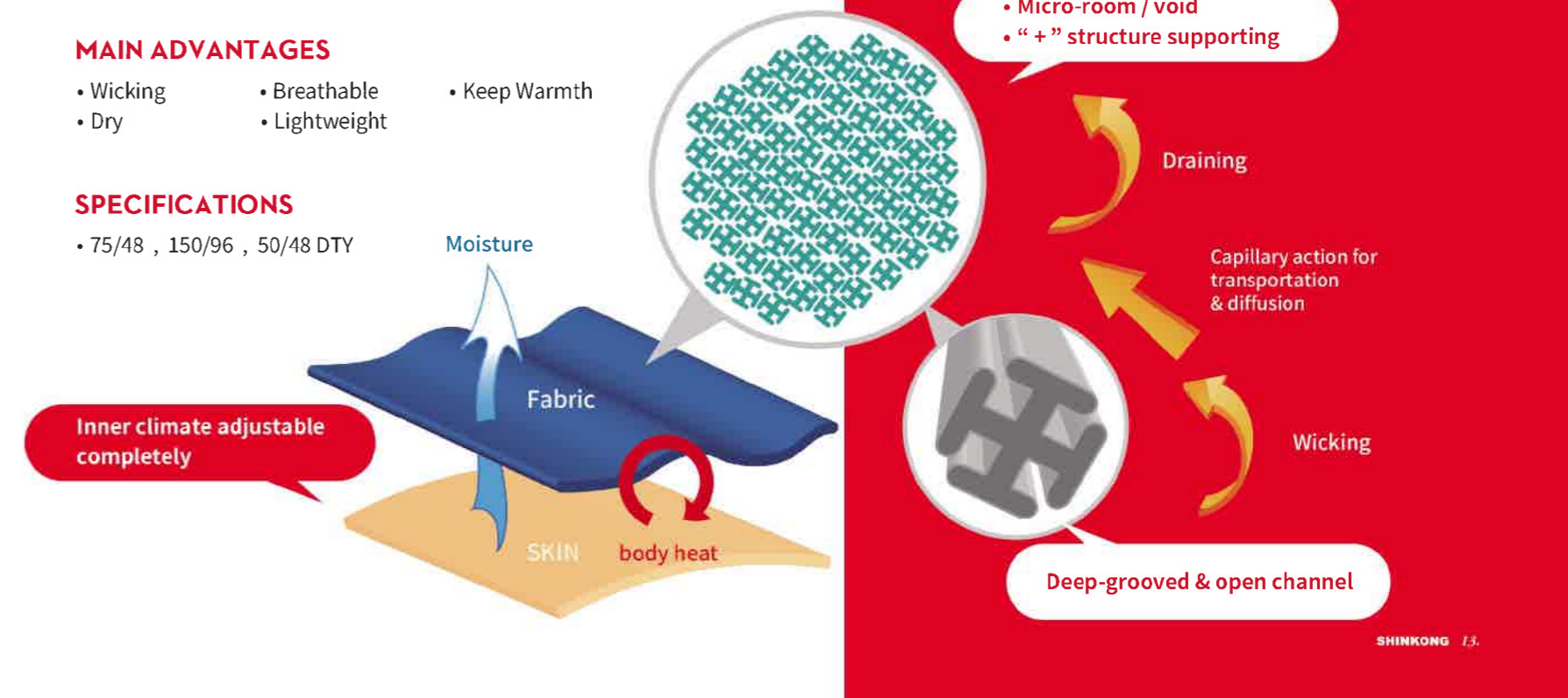
- First innovated & patented fibers in the market.
- Open and deep-grooved channel structure and micro-room to improve capillary action with dry feel on the surface and dust holding efficiency → completely climate and moisture control.

MAIN ADVANTAGES

- Wicking
- Dry
- Breathable
- Lightweight
- Keep Warmth

SPECIFICATIONS

- 75/48 , 150/96 , 50/48 DTY

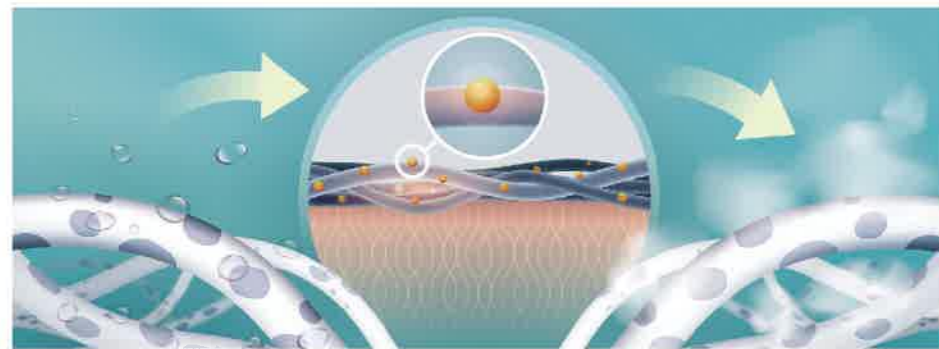


2XDRY 2.0

Super Fast Dry With Soft Hand Feel

By adding special nature Silica and dry element, it comes out the yarn with evenly distributed specific holes and can actively respond the body heat. 2XDRY 2.0 has much quicker moisture drying speed than before. To compare with normal polyester, this will soon absorb the sweat from our body and efficiently remove the sultry.

When body temperature increases, the particles can help accelerate the vapor movement by using the energy. It speeds up the conversion from liquid to vapor and with high drying rates. 2XDRY 2.0 can make you feel dry and comfortable and of course a permanent effect even frequent washing.



SPECIFICATIONS

- DTY 50/72 , 75/72 , 150/144 Wave SD
- DTY 100/144 , 150/144 Wave T/CD heather

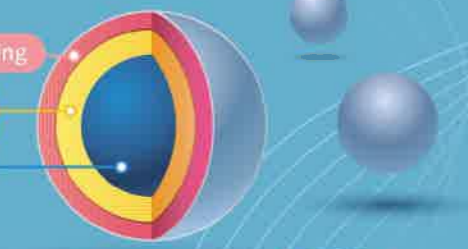
Item	75/72/2 WAVE 2X DRY 2.0	75/72/2 WAVE Regular	75/72/2 Round Regular	
Dry time (min)	6.6	11.22	12.97	AATCC 201-2014 Absorption: 0.2ml
Dry speed (ml/hr)	1.82	1.07	0.93	

SOLAR COOL

Sunlight composed more than 50% Near Infrared Radiation (750-1500nm), which caused the heat. SOLAR COOL is the product that can reflect more than 70% near-infrared ray with excellent heat shading effect. It leaves less susceptible from sunburn like build a shelter (Anti-UV).

NIR Reflection Material :

- Outer Alumina Coating
- Dense Silica Shell
- Macro TiO₂ Core

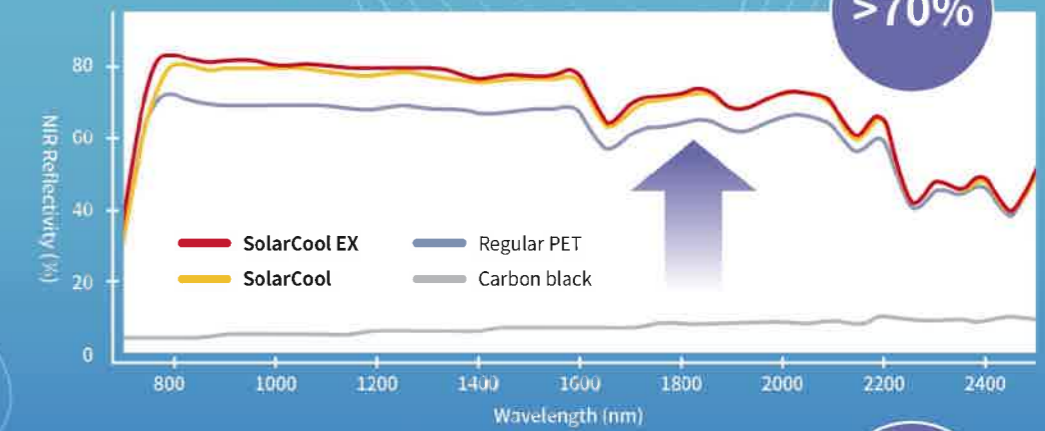


HEAT SHADING TEST

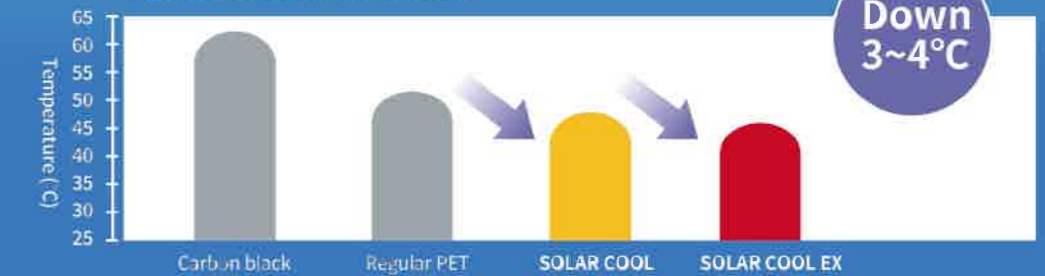


Reflight : PHILIPS PAR38 (wavelength:0.7μm - 5μm)
Distance : 34cm Time : 20minutes

NIR Reflectivity :



Temperature Reduction Test :



SHIN COOL

CHARACTERISTICS

SHIN COOL fiber is a kind of newly developed hydrophilic polyester fiber of SSFC ; its high hygroscopic characteristic makes your body comfortable by adjusting the body temperature and humidity.

The moisture regain of SHIN COOL is near 2% in general, for the regular is only about 0.3%.

SHIN COOL has much better anti-static function and soft hand feeling than regular ones.

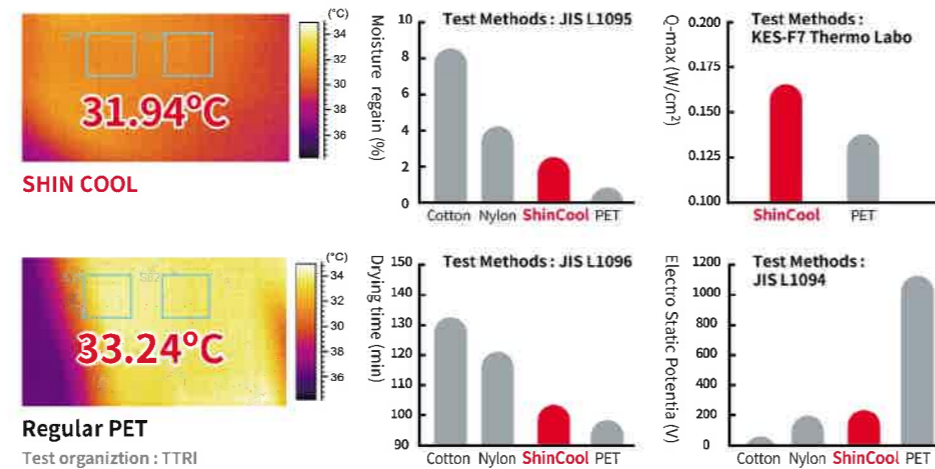
SPECIFICATIONS

- Filament : 50/72 75/72 100/144 150/144
- Cross section : round , 「+」 , 「Y」 , Y + hollow , wave , hollow , 4T

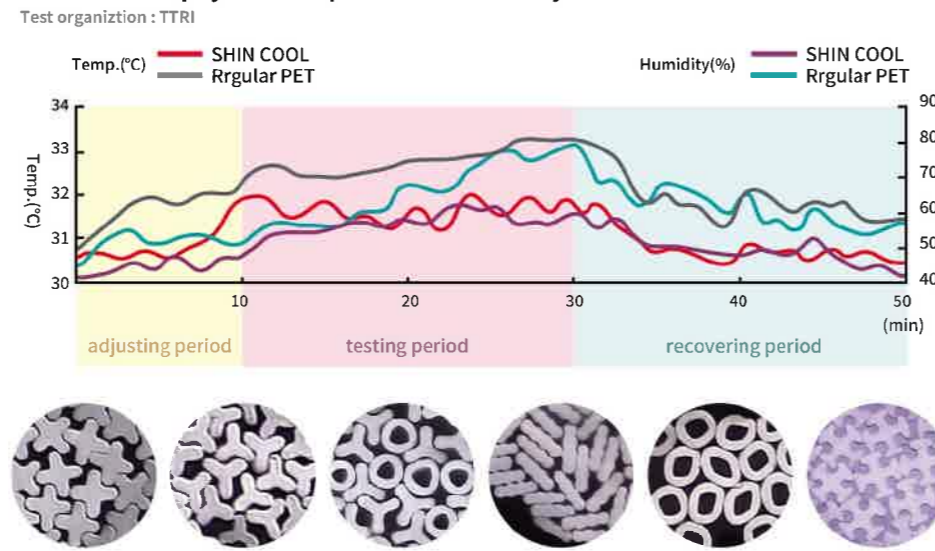
MOISTURE ABSORPTION & LIBERATION

Item	20°C 65%RH	30°C x 95% RH	△ M.R
Cotto	9	17.9	8.9
Nylon	3.1	4.6	1.5
SHIN COOL	2.2	9.0	6.8
PET	0.3	0.5	0.2

Skin surface Temperature test :



Micro climate physical temperature & humidity meter :



SHIN HOT

Nano particle is well dispersed in SHIN HOT to provide fabrics good far infrared ray release ability. Far Infrared ray, a type of energy on the infrared spectrum, benefits a lot. Using SHIN HOT with such energy, you could keep warm though kind of natural heat circulation from your body to the Far Infrared yarn and back to your skin. This yarn is a good choice for maintaining your body temperature, having better sleep, improving your body recovery and reducing inflammation.

Compare to general grade PET, same unit weight of fabrics made by SHIN HOT has 30% higher heat storage, insulation efficiency and of course with superior washing stability. Moreover, the DPF can be lower than one.

SPECIFICATIONS

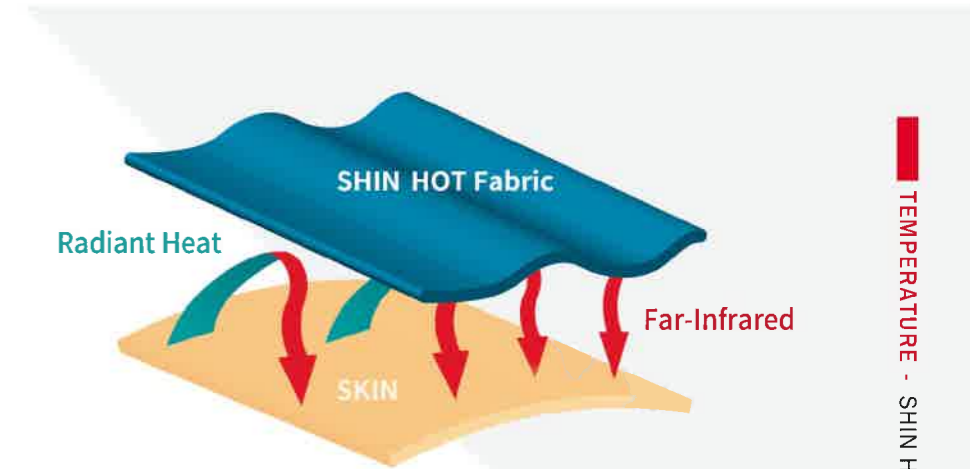
- Filament fiber : 75/72 , 75/72/2 , 75/96 DTY , 75/50 FDY
- Cross section : round , Y and hollow , wave , hollow

APPLICATIONS

Underwear / Sport wear / Casual wear / Polo shirt / Work wear
Shirts / Coats / Hosiery / Bedding / Knee support / Palm brace
Ankle Support

SHIN HOT V.S. GENERAL F-IR FIBER

	SHIN HOT	General F-IR fiber
Color	white	yellow
Machine Abrasion	low	high
dpf	dpf < 1	dpf > 1



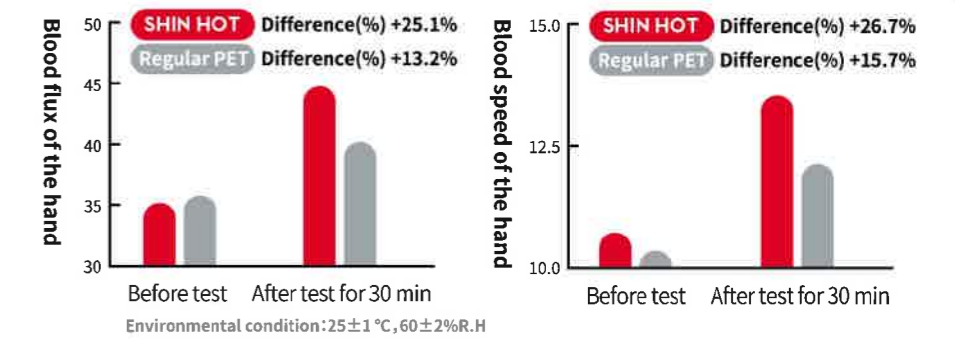
Warming Test :

Item	SHIN HOT	Regular PET	Method
Specified Heating Source & Conditions ΔT(°C)	10.09	5.41	Thermovision: 500W x 100 cm x 10 mins
CLO	0.23	0.19	ASTM D1518-1985
RCT	0.22	0.16	ISO 11092-1993

Color Test :

Item	SHIN HOT	Regular PET
L	84.6	84.5
a	-0.7	-0.5
b	+1.7	+1.4

Test organization: TTRI



DIFFERENTIAL SHRINKAGE SERIES

CHARACTERISTICS

- Thick touch feeling and tenderness.
- The sense of multi-level and fineness in fabric surface.
- Easily adapted to high density fabric or Imitation Suede or Moss like one.

SPECIFICATIONS

- Conjugate (dpf = 0.06 ~ 0.09) : 105/48 S/I , 105/84 split
- High count : 80/156 , 80/84
- Micro high count (dpf = 0.24) : 90/288
- Mixed Yarn high count : 90/192 , 120/192
- Mixed Yarn T/CD 2 - tone : 90/120 , 90/192 , 120/192
- Fine diner : 50/84

APPLICATIONS

Rexine (suede) / Fashion wear / Home fabric



FINE DENIER YARN

CHARACTERISTICS

SSFC's FINE DENIER YARN Series includes FINE DENIER DTY, FINE DENIER SDY and FINE DENIER high-tenacity FOY; the yarn density is available from 15D to 40D.

FINE DENIER SDY and DTY can be used for making Tricot, knitted / woven fabrics ; its excellent features of lightweight, windproof are good for high density laminated fabric applying for sportswear and outdoor wear products.

SPECIFICATIONS

DTY: SD - 15/12 , 15/24 , 20/24 , 20/36 , 30/12 , 30/24 , 30/36 , 30/48 , 30/72
40/72 , 30/36
FD - 30/36
CD - 30/24 , 30/36 , 40/36
SDY: SD/BR - 15/8 , 15/12 , 20/12 , 30/12 , 30/24 , 30/36 , 30/72 , 40/36 , 50/72
FD - 20/12 , 30/12 , 40/12
TBR - 30/24 , 40/24 , 40/36
CD - 40/24 , 40/36 , 50/36



HEATHER EFFECT DTY

HEATHER EFFECT DTY is a kind of specialty yarn made by using special textured technology and several different kind of raw material. Combing with cationic-dyeable yarn and other regular polyester yarn, the fabric will show two tone or three tone special mélange effects.

HEATHER EFFECT DTY can be used in both woven and knitted fabrics. It makes the fabric presenting variable luster and excellent hand feel.

HEATHER EFFECT DTY can also meet the requirements of other functions such as quick-dry, cool touch, elastic, anti-snagging and so on by using other functional materials in the polymerization process.



BREEZE

Cool Comfort Dry

Ultra-light fabric with loose structure could help evaporate the moisture out of cloth quickly to keep you cool, dry and comfortable.

CHARACTERISTICS

- Newly developed fiber with high vapor permeability, quick-dry and comfort.
- Made from Recycled PET.
- Heat dissipation and keeping the body cool and comfortable.

SPECIFICATIONS

- 70/72 , 75/96 , 50/72 , 30/48 , 150/144
- SD , BR , FD , T/CD

APPLICATIONS

Waistcoat / SportsWear / LadiesWear

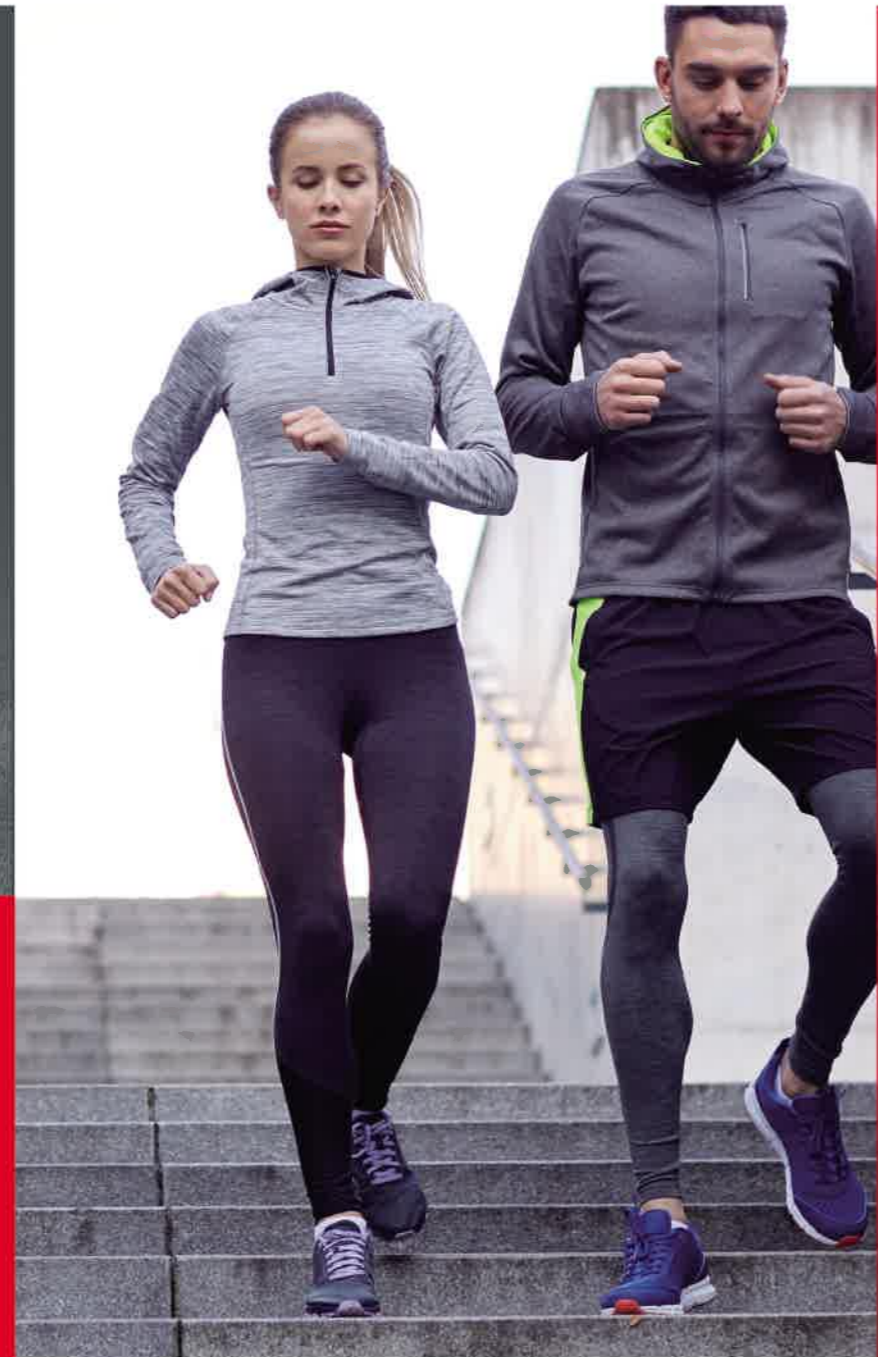


SHALE YARN

Fabric made by this yarn can be visually difference through light source. When putting on the table, it becomes shale pattern; however, if pick it up, you can easily find a see-through looks.

CHARACTERISTICS

- Basic-Shale : Shale pattern
- Advanced-Shale : TCD Type Shale
- Functional-Breeze Shale : Shale yarn looks with Breeze function , quick dry and light weight.



EASY DISSOLUTION

Cool , Comfortable ,
Fashion Design

After special dyeing process for alkali weight reduction, the crossing point formed by yarn will be disappeared. Yarn dissolution can be easily recognized through those micro-holes appearance. The Easy Dissolution yarn is not only can enable the fabric to radiate body heat but also be a good option for fashion design.



FLAME RETARDANT FIBER

CHARACTERISTICS

Flame retardant polyester fiber contains polymer compounded with phosphorous additive which makes the fiber a long lasting effect of flame retardant. While burning the fiber, the yarn will shrink as a ball shape to extinguish the flame. Moreover, it won't release toxic halogen gas. With such specialty, the yarn is a good select for fireproof effect requirement.

It is suggested that Flame Retardant Fiber must be used without combination with other fibers so that the effect of flame retardant can be retained.

APPLICATIONS

Curtains fabric / Home Fabric / Bedding Sheet
Medical Isolated Curtain / Car seat / Blanket
Clothes

PRODUCT TEST

Test Items		Test Results					Test Methods	
		After Flame Time(sec)	AfterGlow Time(sec)	Carbonized	Heating Time(sec)	Carbonized Dist(cm)		
Flammability (As Received)	1 minut heating	Warpwise	0	0	6	-	3	CNS 10285 L3196-1995A-1
		Fillingwise	0	0	6	-	3	
	3 sec later than fire catching	Warpwise	0	0	6	4	3	
		Fillingwise	0	0	6	6	3	
	Grade		1					
	Conditioned Weight as Received (g/m2)		220.1					

Test Items		Test Results		Test Methods
Flammability (As Received)	Number of flame touches to	Warpwise	6	CNS 10285 L3196-1995D
		Fillingwise	6	
	Grade		1	



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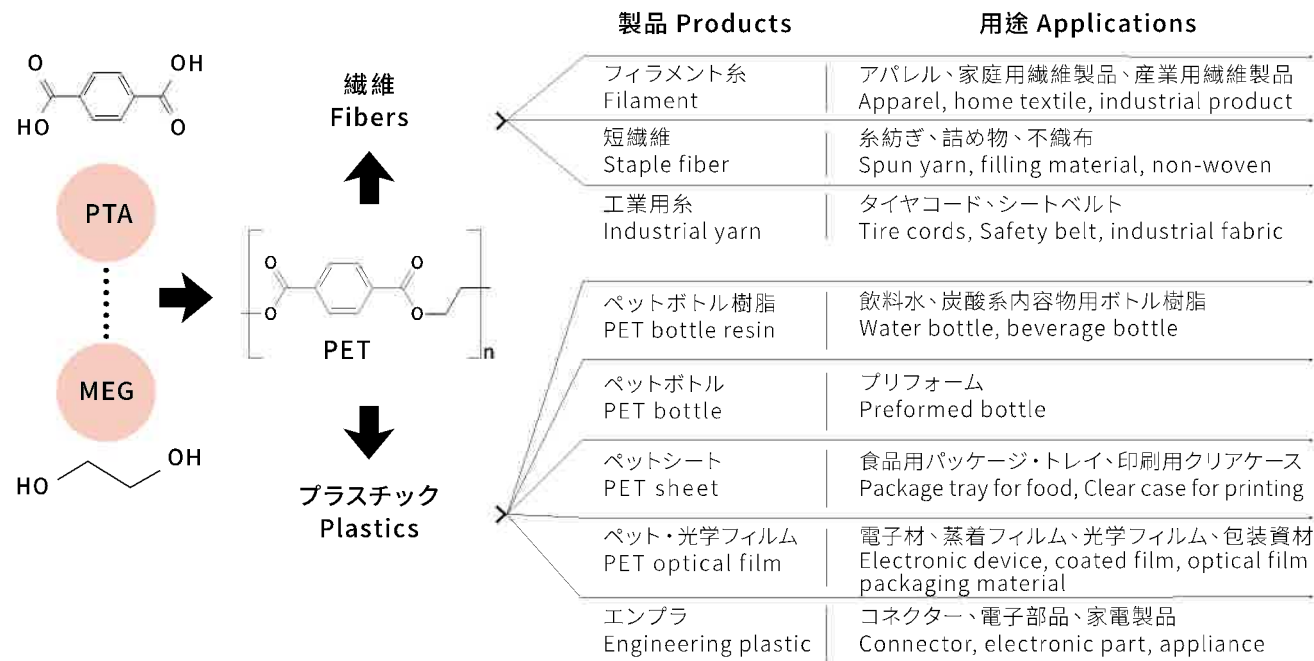
SHINKONG

PET 工業用糸 PET high tenacity industrial yarn

新光グループのご紹介 Shinkong group introduction



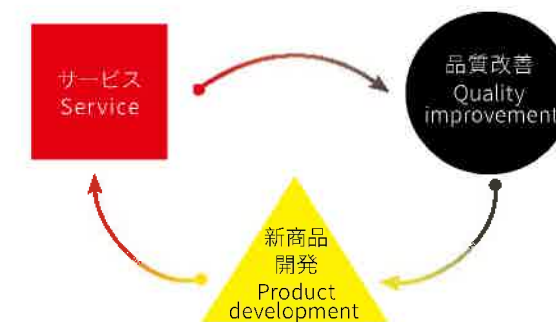
製品及び用途 Products and applications



経営理念 Management philosophy

持続的成長を目指し
より技術が優れた
合成樹脂製品を
A high tech PET manufacturer with sustainable growth and development

品質政策 Management philosophy



ポリエステル原糸 Shinkong Polyester high tenacity industrial yarns

弊社は、自動車、建材、レジャー、土木向けなどさまざまな用途に適した製品を生産しております

Shinkong Polyester high tenacity industrial yarns are widely applied to various fields, including automotive industry, architectural design, lifestyle and leisure, geotextile and grid, and mechanical rubber goods etc..

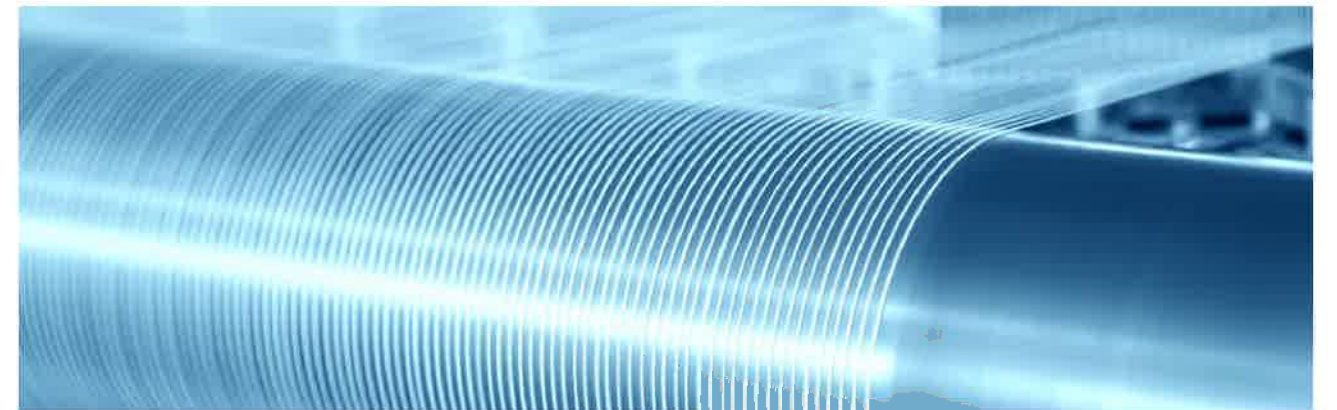
■ 生産量 Production capacity

高強力ポリエステル繊維原糸：台湾中壢工場 12,000MT／年 | 中国杭州新光工場 12,000MT／年
Regular high tenacity yarn: 12,000MT / year (Zhongli Plant, Taiwan)
12,000MT / year (Hangzhou plant, China)

高モジュラス低収縮原糸：台湾中壢工場 13,000MT／年
HMLS (High Modulus Low Shrinkage yarn): 13,000MT / year (Zhongli Plant, Taiwan)

■ 優位性と強み Advantage

40年以上の重合技術を有し、ポリエステル繊維の原料を自社で提供しております。
More than 40 years SSP experience to provide excellent quality for spinning production.



■ 製造技術 Processing & Technology

弊社の製糸技術は、東レのライセンスを受け、製品はブリヂストン、コンチネンタル、グッドイヤー、ヨコハマタイヤ、トーヨータイヤ、クーパータイヤアンドラバーから認定されました。
Technically authorized by Toray. HMLS yarns were approved by tire manufactures ie: BRIDGESTONE, CONTINENTAL, GOODYEAR, YOKOHAMA, TOYO TIRE, and COOPER TIRE

■ 製造設備 Spinning facilities

TMTマシナリーの紡績設備を使用し、技術支援を受けております。
Fully supported by Japan TMT.

製品概要 Products

■ 高強力糸 (普通縮性) High tenacity yarn (normal shrinkage)

	製品情報 Product Range
Denier	100-4000
Tenacity (g/d)	7.9-8.8
Elongation at break (%)	12-18
Hot air shrinkage 180° C*15mins (%)	9-13



主な用途：ブロードクロス、縫製糸、ウェビングテープ、ロープ、縄、ネット、ケーブル

Application: broad fabric, sewing threads, narrow webbing, ropes, cordage, nets, cable



■ 高強力糸 (中収縮性) High tenacity yarn (medium shrinkage)

	製品情報 Product Range
Denier	100-4000
Tenacity (g/d)	7.6-8.8
Elongation at break (%)	15-26
Hot air shrinkage 180° C*15mins (%)	4-8

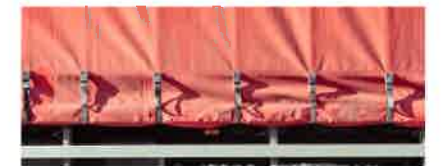


主な用途：ブロードクロス、縫製糸、管材、PVC コーティング材、ケーブル

Application: broad fabric, sewing threads, hoses, PVC coated yarns, cable

■ 高強度糸 (低収縮性) High tenacity yarn (low shrinkage)

	製品情報 Product Range
Denier	250-4000
Tenacity (g/d)	7.5-8.5
Elongation at break (%)	22-33
Hot air shrinkage 180° C*15mins (%)	2-4



主な用途：ブロードクロス、コーティング布、接着布、縫製糸、PVC コーティング材

Application: broad fabric, coated fabric, laminated fabric, sewing threads, hoses, PVC coated yarns

■ 超高強力系（低伸度） Super High tenacity yarns(low elongation)

	製品情報 Product Range
Denier	840-4000
Tenacity (g/d)	8.8-9.9
Elongation at break (%)	10-17
Hot air shrinkage 180° C*15mins (%)	9-14

主な用途:土木材、土木補強材、リフティングスリング、
ウェブングテープ、ロープ、ネット

Application: Geotextile, geogrid, lifting sling,
narrow webbing, rope, cordage, net



■ 高モジュラス低収縮原糸 HMLS (High Modulus Low Shrinkage yarn)

TYPE	Titer (denier)	Tenacity (g/D)	Elongation (%)	H.A.S (177°C× 2mins)	製品特性 Product features				
					AA	REG	HT	SLS	HCF
SK100	1000-2000	8.0 ± 0.3	15.0~16.0	3.7 ± 0.8	V	V			
SK200	1000-2000	8.0 ± 0.3	16.0~16.5	2.5 ± 0.8	V	V			
SK201	1000-2000	8.2 ± 0.3	15.0~16.5	3.0 ± 0.8	V	V			
SK300	1500	MIN8.5	14.0	3.2 ± 0.8			V		
SK301	1500	MIN8.5	14.0	3.2 ± 0.8			V		
SK400	1300-1500	7.8 ± 0.3	17.5	2.0 ± 0.8	V			V	V

H.A.S: Hot Air Shrinkage 177°C *2min(Load 0.05g/D)

AA: adhesive activated 活性化粘着性

SLS: super low shrinkage 超低収縮性

REG: regular 汎用

HCF: High Count Filaments 高番手

HT: high tenacity 高強力



主な用途:タイヤコードファブリック、Vベルト、コンベヤベルト、浸漬
コード、ゴム補強材

Application: tire cord, V- belt, conveyer belt, dipped cord,
rubber reinforcement

特殊製品 Specialties

■ 高強度現着糸 (普通、中、低収縮性) High tenacity dope dyed yarn (normal /medium/low shrinkage)

高強度特性を有し、カラーマスターバッチから直接形成します。着色剤を使用せず、色差・汚染を抑えています。
Mixing polyester with color master batch before the melted polyester was extruded.
This gave a yarn with excellent color fastness and light fastness properties, low color difference, also reduce the water pollution due to dyeing process.

	製品情報 Product Range
Denier	150-4000
Tenacity (g/d)	6.4-8.4
Elongation at break (%)	11-30
Hot air shrinkage 180° C*15mins (%)	3.2-16



主な用途：ロープ、ネット、メッシュ、自動車内装材、複合補強材、シートベルト
Application: rope, net, mesh, narrow fabric, car interior, composite reinforcement, safety harness

■ 高強度撥水系 (普通、中、低収縮性) High tenacity anti-wick yarn (normal / medium/ low shrinkage)

高強度特性を有し、撥水剤が添加されており、同時に防カビ性及び剥離防止の効果を発揮します。

Anti-wicking finished yarns that prevent mold and delamination due to moisture.

	製品情報 Product Range
Denier	250-4000
Tenacity (g/d)	7.5-9.9
Elongation at break (%)	10-33
Hot air shrinkage 180° C*15mins (%)	3.2-16



主な用途：サンシェード、プール用布、防水シート、テント、エアベッド
Application: awning, canopies, ground pool, tarps, inflatables

■ 環境配慮型工業用糸（普通、中、低収縮性） Eco-friendly industrial yarn: RecoTex™

ペットボトル再生原料を主な原料として、特殊な重合・紡糸プロセス技術を経て、優れた品質を持ったペットボトル再生ポリエステル繊維を生成します。ペットボトル再生原料を利用することによって廃棄ペットボトルによる環境汚染を抑制し、石油化学原料の使用量を削減。同時に、CO2 およびエネルギーの消費量を抑え、地球温暖化への影響を減らすことができます。新光合成繊維社は環境保護を企業経営の重要な理念の一つとして掲げ、長きに渡って環境保全活動への取り組みを積極的に行っています。

RecoTex™ is a series of newly developed eco-friendly fibers made from recycled PET bottles. In prevent from global warming, RecoTex™ can not only reduce environmental pollution, fossil fuel and energy consumption, but also decrease CO2 emissions.

環境配慮型工業用糸は用途に応じて様々な特殊機能を付加し、難燃繊維・色系・防水性繊維など様々な工業用糸を製造することができます。

RecoTex™ industrial yarn can be used to create functional fibers for special purposes such as flame retardant colored yarn, water-repellent, and other functional industrial yarn.



	製品情報 Product Range
Denier	250-4000
Tenacity (g/d)	7.0-8.6
Elongation at break (%)	12-26
Hot air shrinkage 180° C*15mins (%)	2.5-13

用途：環境配慮型工業用糸は用途に応じて共同開発にご対応します。

Application: Industrial applications which advocate energy saving and waste reduction.

■ 難燃性高強力糸（普通、中、低収縮性）
Polyester flame retardant industrial yarn (normal/medium/ low shrinkage)

繊維中にリンを含むことで難燃性を高めており、着色原糸の生産も可能です。
Possess sustainable phosphorus flame retardants properties and available for dope dyed colors.

	製品情報 Product Range
Denier	210-4000
Tenacity (g/d)	6.0-8.0
Elongation at break (%)	13-33
Hot air shrinkage 180° C*15mins (%)	3.3-11



主な用途：自動車内装材、インテリアなどの資材
Application: Transport and home textile, architecture.

■ 接着活性化糸 (低伸度低収縮性) Adhesive activated yarn (low elongation, low shrinkage)

寸法安定性及び活性化接着性が優れ、産業向けのゴム資材に適用しています。
 Excellent dimensional stability and adhesion are suitable for various mechanical rubber goods.



	製品情報 Product Range
Denier	1000-1500
Tenacity (g/d)	≥ 8.3
Elongation at break (%)	12-16
Hot air shrinkage 180° C*15mins (%)	5.5-6.5

主な用途：ゴムホース、コンベヤベルト、産業用ゴム資材
 Application: rubber hose, conveyer belt, mechanical rubber goods

■ 海洋ロープ用耐摩耗性高強力糸 Marine use abrasion resistant high tenacity yarn

特殊な表面処理技術を用いて、非吸水性及び耐久性を高めています。
 Special finished yarn surface gives the rope and cordage better wet abrasion resistance and durability



	製品情報 Product Range
Denier	1000-4000
Tenacity (g/d)	≥ 9.0
Elongation at break (%)	12-18
Hot air shrinkage 180° C*15mins (%)	9-13

主な用途：船舶用ロープ、大型船牽引用ロープ、水産用ロープ、綱引きロープ、登山用などレジャー向きロープ
 Application: Boating/marine lines and rigging, heavy-duty offshore mooring rope, commercial fishing ropes and netting, sports, and recreation equipment



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