



**SAMSUNG DYEING Co.,Ltd.**  
**SAMSUNG TRADING Co.,Ltd.**



Samsung Trading Co.,Ltd. Address : 2037-9 Bisan 7-dong, Seo-gu, Daegu, Korea  
Tel.81-53-354-0541 Fax.81-53-354-0543

Samsung Dyeing Co.,Ltd. Address : 2037-21 Bisan 7-dong, Seo-gu, Daegu, Korea  
Tel.81-53-355-1421 Fax.81-53-355-1423

[www.tgsstextile.com](http://www.tgsstextile.com)



Registered ISO 9001:2000

**SAMSUNG DYEING Co.,Ltd.**  
**SAMSUNG TRADING Co.,Ltd.**

- robic
- robic-air
- regen

# SAMSUNG DYEING Co.,Ltd.

## History

- 1973.03** Samsung Dyeing Corporation Established
- 1981.09** Name changed to Samsung Dyeing Co.,Ltd and Moved to Bisan Dyeing Industrial Complex and expanded the business
- 1988.10** Established Samsung Trading Co., Ltd(weaving and trading company)
- 1994.12** Full automation of dyeing facilities
- 2006.10** Automation of Production Facilities & Introduction of IT devices
- 2007.04** Development of Special Fabrics (robic, air and regen)
- 2007.08** Acquired ISO-9001 certificate
- 2008.01** Acquired INNO-BIZ certificate
- 2008.12** Acquired Eco-Label (OEKO-TEX)

## Main Commodities

- Nylon Oxford
- Poly Oxford

## New Commodities

- robic
- robic-air
- regen

## Manufacturing Facilities of Samsung Dyeing Co., Ltd.

- Rotary Washer ▶ 1 unit
- Jigger ▶ 16 unit
- Rapid ▶ 3 unit
- Tenter ▶ 1 unit
- Coating Machine(textile) ▶ 1 unit
- Inspection Machine(fabric) ▶ 6 unit

## Manufacturing Facilities of Samsung Trading Co., Ltd.

- Warming Machine ▶ 1 unit (1260 Creel)
- Beaming Machine ▶ 1 unit
- Weaving Machine ▶ 78 unit
- Drawing-in Machine ▶ 5unit
- Inspection Machine(fabric) ▶ 3 unit

## The Production Process



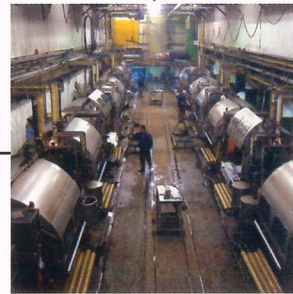
[Warping]



[Beaming]



[Weaving]



[Dyeing]



[Processing]



[Coating]

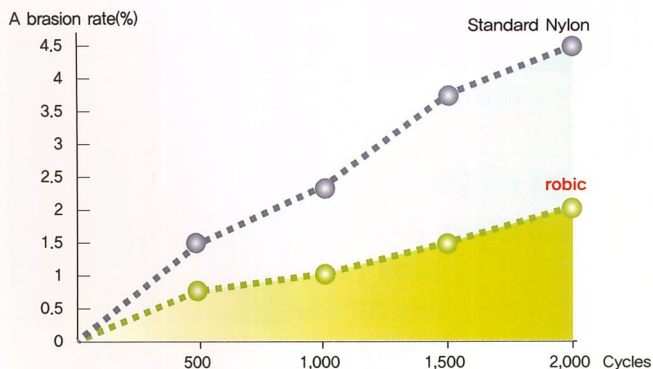
One-stop Process Line

# robic®

Compared to the standard nylon, robic has better tensile/tearing strength and higher tenacity. robic's excellent abrasion resistance also make the products durable and maintain the first look even after the long use.

## Features

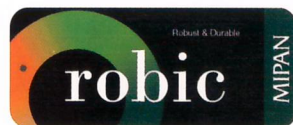
### [Excellent Abrasion Resistance]



### [Excellent Strength]

420 Oxford (high density)	Tensile strength(kgf)		Tearing strength(kgf)	
	warp	weft	warp	weft
<b>robic®</b>	<b>278.3</b>	<b>210.8</b>	<b>16.3</b>	<b>15.1</b>
Standard Nylon6	233.6	180.8	10.2	8.3
Standard	ASTM D 5034 GRAB		ASTM D 2261 TONGUE	

## TAG



## Final Products

- \* Snowboards/ski outfit, outfit for rock climbing, motorcycle outfit
- \* Backpack, bag, military uniform



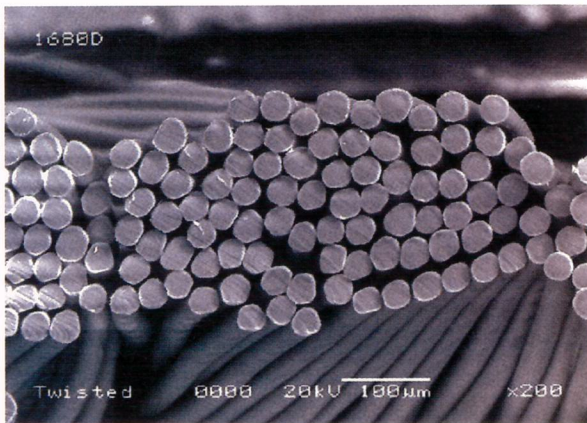
# robic-air<sup>®</sup>

air is a porous fiber that is very light. Its hollow fiber membranes also create a natural layer of air that prevent the loss of body heat.

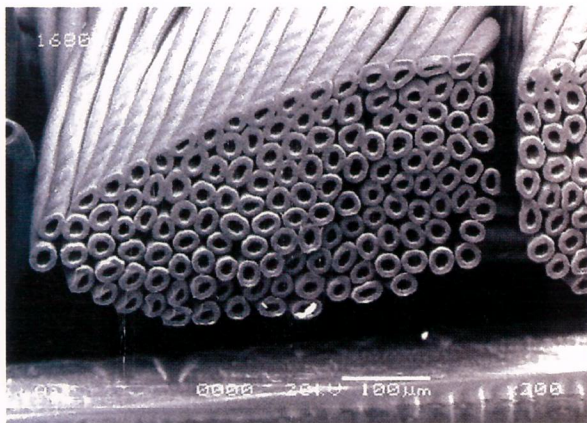
## Features

[Unique Durability of Nylon]

[Excellent Lightweight Fabric]



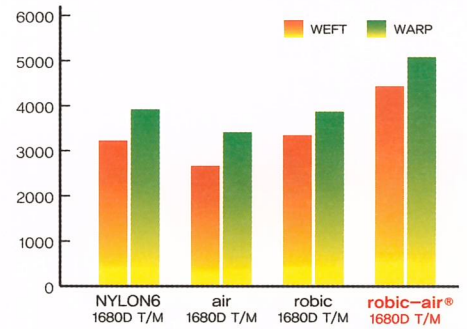
▲1680D Standard



▲1680D robic-air

## [Thermal Insulation Provided by the Air Layer]

Comparison FABRIC : N1680D×N1680D, 24×21, PLAIN



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## Final Products

- \* Snowboards/ski outfits, hiking outfits
- \* Motorcycle outfits, sportswear
- \* Backpacks, bags



# regen<sup>®</sup>

regen is an eco-friendly nylon fiber that is recycled from the waste generated during textile manufacturing or used garments.

## [Recycle Process]



Collecting of waste, Sorting/Cleansing, Removing impurities

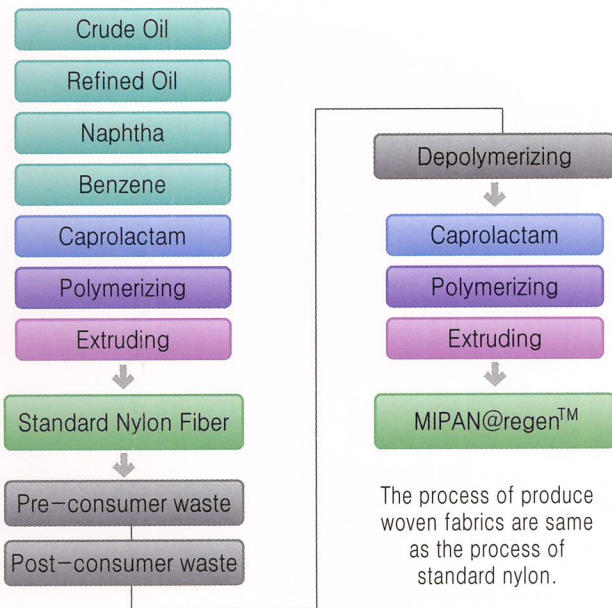


Shredding the waste into suitable sizes, Depolymerizing/Polymerizing



Producing recycled chips/Extruding/Weaving

## [Comparison of the Production Processes of Standard Nylon and Mipan regen<sup>™</sup>]



## Features

[Recycling the post-consumer waste]

[Reducing 27% of resources as compared to the production of standard nylon]

[Reducing 28% of carbon dioxide emission]

[Reducing the landfill waste through recycling]

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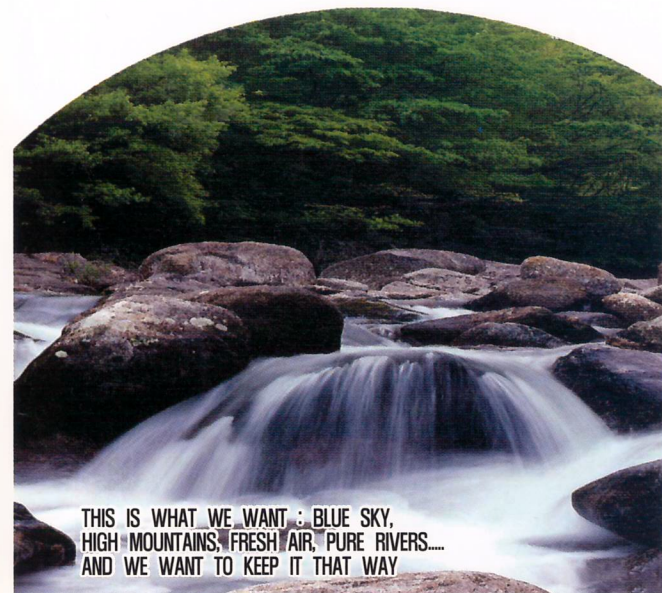
[Nylon recycle yarn]



[Polyester recycle yarn]

## Final Products

- \* Outdoor sportswear, backpack, shoe
- \* Swimsuit, lingerie
- \* Sock, etc.



THIS IS WHAT WE WANT : BLUE SKY,  
HIGH MOUNTAINS, FRESH AIR, PURE RIVERS....  
AND WE WANT TO KEEP IT THAT WAY

# 1000D ROBIC(Regular)

## 1 ABRASION RESISTANCE

(BS EN ISO 12947-2:1999, MARTINDALE METHOD):RUBS

▶ **ABOVE 50000**

## 2 TENSILE STRENGTH

(EN ISO 1421:1998, C.R.E, STRIP METHOD):N/5cm

▶ **WARP 3500**

▶ **WEFT 2400**

## 3 TEARING STRENGTH

(EN ISO 4674-1:2003, METHOD 1):N

▶ **WARP 250**

▶ **WEFT 150**

## 4 WATER RESISTANCE

(BS 3424 PART 26:1990, METHOD 29A):mmH<sub>2</sub>O

▶ **OVER 10000**

## 5 WATER REPELLENCY

(BS 3424 PART 26:1990, METHOD 29D):GRADE

▶ **5 5 5**

## 6 COLORFASTNESS TO RUBBING

(BS EN ISO 105X12:2002):GRADE

▶ **WARP -DRY 4-5**

-WET 4-5

▶ **WEFT -DRY 4-5**

-WET 4-5

## 7 COLORFASTNESS TO LIGHT

(BS02:1999, XENON-ARC-LAMP, BLUE SCALE):GRADE

▶ **UP TO GRADE 4** ▶ **ABOVE 4**

# 1680D ROBIC-AIR

## 1 PILLING

(EN ISO 12945-1:2000, MARTINDALE METHOD):GRADE

▶ **AFTER 5000 CYCLES 4-5**

## 2 WEIGHT

(BS EN 12127:1998):g/m<sup>2</sup>

▶ **322.5**

## 3 ABRASION RESISTANCE

(EN ISO 12947-2, MARTINDALE METHOD):RUBS

▶ **ABOVE 50000**

## 4 TEARING STRENGTH

(EN ISO 13937-2:2000, C.R.E, SINGLE TEAR METHOD):N

▶ **WARP 380**

▶ **WEFT 320**

## 5 TENSILE STRENGTH

(EN ISO 13934-1:1999, C.R.E, STRIP METHOD):N/5cm

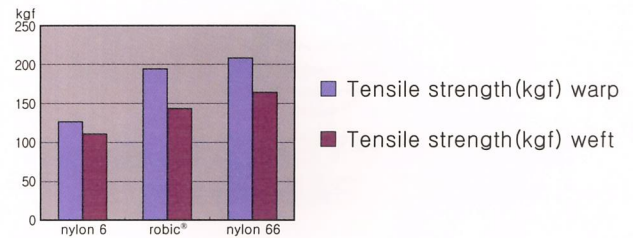
▶ **WARP 3800**

▶ **WEFT 3400**

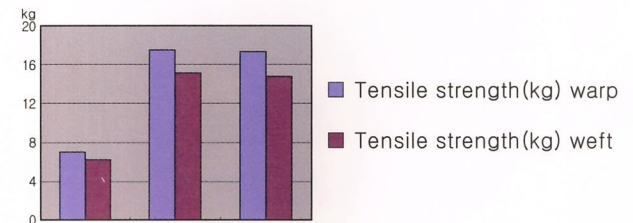
# 500D ATY ROBIC

	Tensile strength(kgf)		tensile strength(kg)	
	warp	weft	warp	weft
nylon 6	126	111	7.0	6.2
robic®	194	143	17.5	15.1
nylon 66	208	164	17.3	14.8
standard	ASTM D 5034 grab		ASTM D 2261 tongue	
	0	100	200	300
nylon 66	0	19	70	121
robic®	0	28	80	141
nylon 6	0	51	114	242

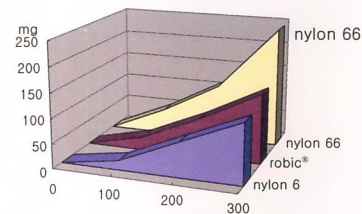
1. Tensile strength  
ASTM D 5034 grab



2. Tensile strength  
ASTM D 2261 tongue



3. Abrasion Resistance  
ASTM D 3884, TABER METHOD 1000g H-22



# Certificates

Eco-Lable



ISO-9001



GRS

