



Contents

01 Mission and History	p. 3
02 Business strategy	p. 5
03 Facilities & Capability	р. 7
04 Textile Product and challenges	p. 15



















Your belief, Our future.

Passion for innovation and Sustainable living
Growing and Exploring since 1976

Environmental protection begins from little changes we make.













* 1 / OUR MISSION

We seek to produce high-quality products through constant R&D and innovative challenges towards future value.



Quality is our priority.

We grow continuously over innovative ideas and manpower with expertise in fashion business.

We maximize the efficiency of our business with constant material development and active customer service.

Our enterprising spirit pursues the improvement of society and the environment.



* 2 / HISTORY and GROWTH

Since 1976

2023 People and planet award from VF Korea

2021 Clean by Design project joined

2020 Acquired HIGG INDEX certification

2018 Acquired GRS certification

2015 Acquired BLUESIGN Certification

2015 Establishment of ONECHANG VINA (Garment factory)

2014 Changed the name to ONECHANG MATERIAL CO., LTD

2010 BLUESIGN partnership

2009 VF ASIA lab certification

2005 Registration of ZENINTEX trademark

2003 Acquired ISO 9001 and ISO 14001 certificates

1976 Establishment of ONECHANG Textile Corporation



* 3 / BUSINESS STRATEGY

01. Textile Goes Greener

Continue to scale up our impacts to improve people's life

Under the banner of creation of future-oriented values and trust, we are devoted to better human life by sustainable business environment.

It is not only for value-added fashion products but our mutual growth with prospective strategy, now and into the future.



















02. Production Goes Faster

ONECHANG pursues **ONE** STOP solution for fashion business.

From textile weaving to garment making from our own mills, we could create vertical innovation to catch up speedy trend and customer's diverse requirement.

CREATE
ONE STOP solution!
VERTICAL Innovation!



Trend Research



Textile making



Eco finish



Garment making

* 4 / FACILITIES & CAPABILITY

WEAVING MILL

Factory	No. of Machines	Maker/Type	Annual Capacity (As standard 20 denier)
Building#1	99	Tsudakoma / W.J.L	6,200,000 YDS
Building#2	140 (Including 12 Double warp Beam Machines)	Toyota / A.J.L	8,7000,000 YDS
Building#3	81	Tsudakoma / W.J.L	5,100,000 YDS
Total	320	Sub Total: about 20,000,000 YDS (20 Denier 24,000,000 YDS (30 Denier 30,000,000 YDS (50 Denier	

DYEING MILL

Machine list	No.	Annual Capacity
Unpacking Machine	5	16 000 000 VDS
Washing Machine	2	16,000,000 YDS
Jigger Dyeing Machine	17	14,000,000 YDS
Rapid Dyeing Machine	11	11,000,000 YDS
Total	32	25,000,000 YDS

FINISHING MILL

Machine list	No.	Annual Capacity
Laminating & Bonding machine	2	3,500,000 YDS
Tension control Calender (Cire) machine	3	20,000,000 YDS



4-1 / FACILITIES and CAPABILITY in WEAVING

Factory	No. of Machines	Maker/Type	Annual Capacity (As standard 20 denier)
Building#1	99	Tsudakoma / W.J.L	6,200,000 yds
Building#2	140 (Including 12 Double warp Beam Machines)	Toyota / A.J.L	8,700,000 yds
Building#3	81	Tsudakoma / W.J.L	5,100,000 yds
Total	320	Sub Total : abo	ut 20,000,000 yds (20 Denier) 24,000,000 yds (30 Denier) 30,000,000 yds (50 Denier)





4-2 / FACILITIES and CAPABILITY in DYEING MILL

Integration of technology and design
Creating the best in optimal production environment





Machine list	No.	Annual Capacity
Unpacking Machine	5	46 000 000 VD6
Washing Machine	16,000,000 YD:	
Jigger Dyeing Machine	17	14,000,000 YDS
Rapid Dyeing Machine	11	11,000,000 YDS
Total	35	25,000,000 YDS

4-3 / FACILITIES and CAPABILITY in FINISHING MILL

Special finishes towards high quality production



TENSION CONTROL CALENDER MACHINE FOR DOWNPROOF FABRIC



HOTMELT TYPE LAMINATING MACHINE

Machine list	No.	Annual Capacity
Laminating & Bonding machine	2	3,500,000 YDS
Tension control Calender (Cire) machine	3	20,000,000 YDS



ONECHANG international co., Itd.

< APPAREL DIVISION in Vietnam >



FACILITIES and **CAPABILITY** in Garment factory

ONECHANG VINA produces woven wears such as outdoor jacket, down coat, sportswear and pants. We export special garment to the whole world including USA, Europe and Asia area. Vertical manufacturing fabric and garment.

CAPACITY	700,000PCS / YEAR
PRODUCTION LINE	14 LINES
WORKS	800 EMPLOYEES
AREA	15,000 M2



GARMENT MAKING KNOW-HOW & SPECIALITY

Our creativity in the garment technology is our greatest asset.

- HIGH TECHNIQUE FOR DOWN JACKET
- LASER CUTTING
- PATTERN FORMER
- HIGH TECH WELDING
- SEAM SEALING MACHINE
- SEAMLESS GARMENT MAKING

- IN HOUSE PATTERN & SAMPLE ROOM
- ONE-STOP PROCESSING













ECO FRIEND ENVIRONMENT

We are doing our best to build eco friendly environment
We comply with the laws and regulations of local authorities















* 5 / TEXTILE PRODUCT













BRAND	CATAGORY	BRAND	SUB BRAND	CHARACTERISTIC
			+UTR	7D,10D Ultra light weight
	DOWN PROOF	DRF	+AIRZENIN DRF	12D ~ 30 Light weight Down
	Bowithitooi	Ditti	+ZENIN DRF	40D & over Heavy Down
			+TUBUS DRF	Fine denier Double / Triple layer Down
			+AQUA-S	Lamination / coating for waterproof & breathable
	PROTECTION	AQUA-S	+NANO-SHELL	Electrospun membrane / high breathability
			+AQUA-LITE	10 denier light backer used
			+AQUA-OUTDRY	Face Lamination for waterproof
ZENINTEX* OUTSTANDING TECHNOLOGY	STRETCH TECHNO STRETCH CASUAL		+PU	Elastane(PU)
			+MS	Mechanical Stretch
			+NATURAL	Cotton-like, Wool-like
		+MELANGE	N/P mixed, CDP and TTD	
	LIFE STYLE	MIXTURE	+PRINT	Sublimation, Screen, Pigment and DTP
			+UNIQUE TEXTURE	Special Texture & 3D effect
	Eco-Friendly	RE-GREEN+	+RECYCLE	Recycled Nylon & Polyester
	Eco-i Hendiy	INE-OINEEIN	+PFC FREE	Non-fluorine DWR
			+VOLT FREE	Anti-static special Yarn & Chemicals
			+EXOHEAT	Warm biz product
	TECHNOLOGY	HYPER-TEC	+BLACK HEAT	Warm biz from carbon compounds yarn
			+BREEZEN UV SHIELD+	UV CUT function
			+BREEZEN	Cool biz product

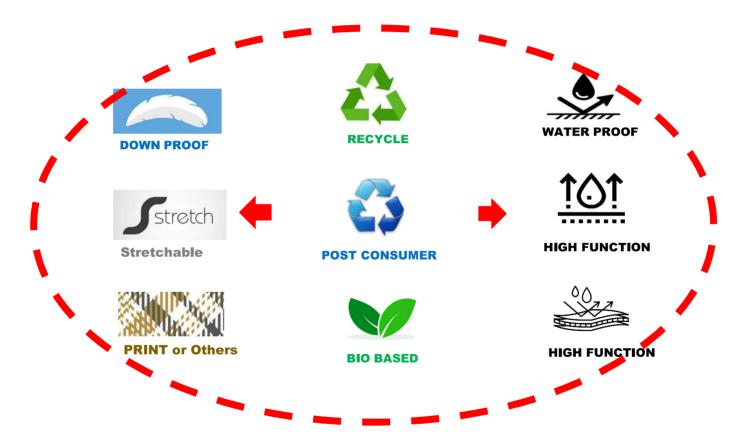
2025 FW Development Concept Map





< Strategic Product Map >

Development of eco-friendly materials towards high quality production



DRF + UTR (ULTRA LIGHT)



Back to the classic Premium down jacket

< VALUE >

7D & 10D downproof / windproof with or without coating

Soft touch and air permeable

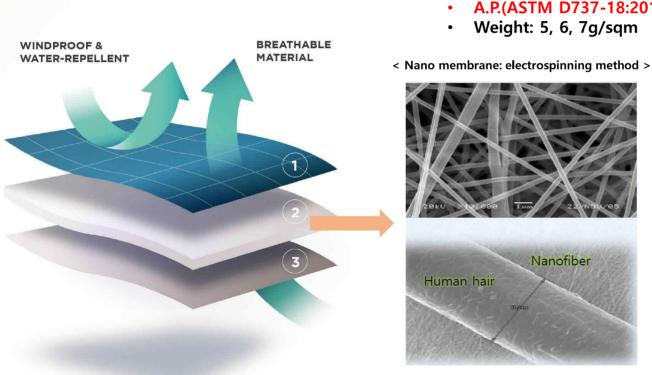
Maintain tear strength (> 2.0 lbf)

All PFC free DWR treatment (over 70 points after 10 x wash)

Control air permeability
Under 1.0 cfm initial & 4.0 cfm after
10 x wash



AQUA-NANO



* PFC FREE NANO web high functional product

- WP(ISO 811): ↑ 10,000 H₂0 (initial)
- MVP(JIS L 1099 B-1): ↑ 40,000g/sqm.24hrs
- A.P.(ASTM D737-18:2018): ↑ 0.17 cfm
- Weight: 5, 6, 7g/sqm

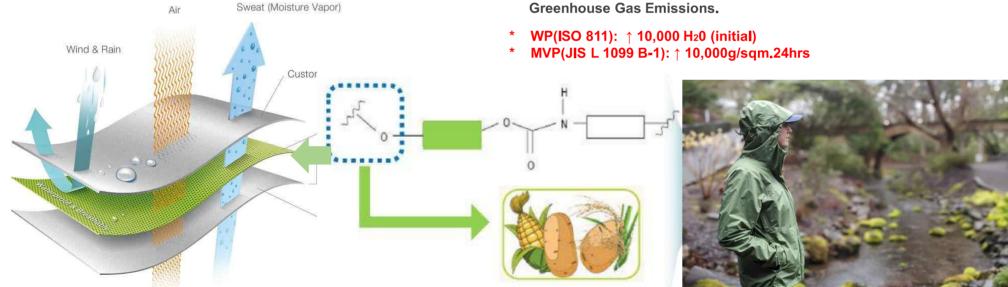


AQUA-BIOZENIN (27, 44, 70%)



< VALUE >

- * Bio-based PU membrane
- Bio-based carbon content: 25~ 44%
- The low carbon footprint helps make the product more sustainable & Greenhouse Gas Emissions.



HYPER TEC + CODURA RECYCLE

Maintaining High Tenacity & Durability with sustainability









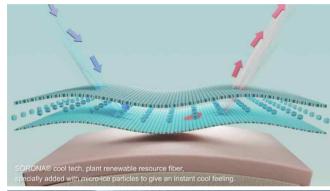


MADE WITH RECYCLED MATERIALS

- Made from reclaimed preconsumer waste materials during manufacturing process
- Rugged- excellent resistance to abrasion and scuffs
- Strong- excellent resistance to tearing
- 100% pre-consumer recycled nylon-6,6
- Any woven constructiontypically plain, ripstop, dobby
- Ideal for use in variety of productions including apparel, reinforcements, outerwear



HYPER ICE





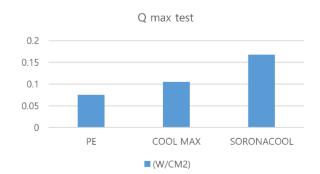
- * Long Lasting stretch and recovery* Dry and comfortable



Cool touch fabrics with Sorona polymer offer exceptional stretch and recovery, added ultra-micro particles give you an instant cool touch while you exercise

- < Qmax Test result >
- 2023-143-AW (NORMAL PES)- 0.075 (W/cm2)
- 2. CPS8038 (COOLMAX) 0.105 (W/cm2)
- 3. 2023-135-AWSF (SORONAL COOL) 0.168 (W/cm2)





TECHNO STRETCH



TECHNO STRETH / CREORA COLOR+ has unique property with excellent dyeability and colorfastness in blends with nylon, which is dyed with acid dyestuff. It can reduce uneven color on textile product, and make color of fabrics deeper and more vivid.





After Washing

- < VALUE >
- Extraordinary color reflection
- deeper & darker color shades in blend with Nylon
- Better colorfastness after washing
- Elimination of grin-through
- · Available use Creora bio-based

SILENT + BREATHABLE DOWN PROOF COATING (ULTRA SOFT)





SOFT DOWN PROOF COATING

Premium down jacket DTY, Stretch down

< VALUE >

Soft , Silent, Breathable downproof / windproof with micro porous coating

Soft touch and air permeable

Maintain tear strength (> 2.0 lbf)

All PFC free DWR treatment
Micro Porous soft coating
(over 70 points after 10 x wash)

Control air permeability

Under 1.0 cfm initial & 4.0 cfm after 10 x wash



DURABLE + LIGHT 2024 NEW



Proposal of high-tenacity light weight materials suitable for outdoor activities

Low-denier (20,50) grade materials can be supplied, compared to ROBIC (70,100,210), RARAMID(400,840), DYNEEMA 200, 305, 392)

	Item	Finish	Yarn Spec	Tear strength
PE (MOS6)	2023-198-CA	C0 DWR / Calendering	N/DTY 20/7 SD+P/DTY 50/72 SD(Recycle) X N/DTY 20/7 SD+P/DTY 50/72 SD(Recycle)	2.9 / 2.1lbf
UHMWPE mixed	2023-229-BC	C0 DWR / Back Heavy Cire	N/F 20/6 FD+ PE/ F 50/30 BRT X N/F 20/6 FD+ PE/ F 50/30 BRT	6.9 / 6.3lbf

< STRENGHT COMPARISON > * UHMWPE: Ultra High Molecular Weight Polyethylene

COMFORT & STANDARD (POLYESTER)









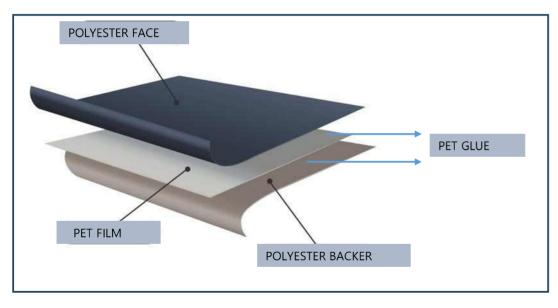
Materials with various textures and processing to increase the applicability to buyers' styles Comfortable, but up to the standard and for casual outdoor use

< Strength Properties Requirement (UNIT: lbf) >

Requirements	21- 40D	41 - 75D
Tensile Strength - Warp Direction	80	90
Tensile Strength - Fill Direction	70	80
Tear Strength - Warp Direction	2.8	3.3
Tear Strength - Fill Direction	2.5	3.0

MONO CONTENT (100% TEXTILE RECYCLING) 2024 NEW

MONOMATERIAL, Composed of recycle PES on the face and back, recyclable PET glue and membrane.

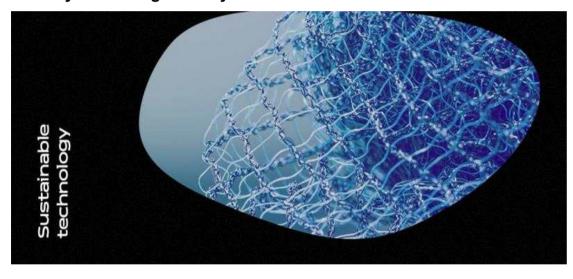


Target Performance

Property	Test method	Performance
Water Repellency	AATCC 22	≥90 points (initial), ≥70 points (after 20 x wash)
Low Range Hydrostatic	AATCC 127	\geq 2,000mm (after 20 x wash)
High Range Hydrostatic	ASTMD751	\geq 25 psi (after 20 x wash)
MVTR (Upright cup)	ASTM E 96B	≥600g/sqm 24hrs (13mm & 19mm air gap)
MVTR(Inverted cup)	JIS L1099 B-1	≥3,000g/sqm 24hrs

RE-GREEN+ POST CONSUMER

The 150 million tones of plastic are dumped into our oceans every year that include plastic lines, ropes and net used by the fishing industry



- · GRS Certified
- Post-consumer recycled Nylon
- · Using waste fishing nets from Ocean
- Depolymerized Nylon chip, same quality with virgin Nylon
- Collection Chemical Recycling Creation
- · Clean up our oceans





BIO ZENIN - BIO BASED NEW

Bio based Nylon 5.10

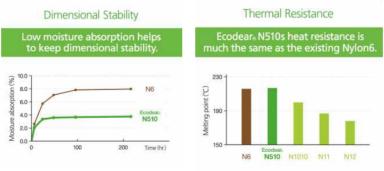
- * Nylon made from raw materials extracted from corn and castor oil
- *100% renewable raw material

Bio-based Nylon reduces carbon footprint by replacing petroleum-based raw materials with Sustainable materials and also reduces reliance on non-renewable resources



Bio-based Nylon is made from cadaverine(Corn) and sebacic acid (Castor oil) from 100% Bio-mass









INNOVATION / RPODUCT 2024

PHA: Natural polymers made through microbial fermentation

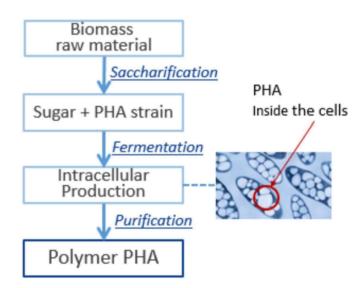






	PBS, PBSA	PHA
Biodegradable	PBAT	Cellulose
	PCL	Starch
Compostable	PBS, PBSA	
	PBAT	PLA, PHA
	PCL	
N.	Conventional	Bio-PE
Non- Biodegradable	Polymers:	PA11, PA6,
	PE, PP, PS etc	PDO
: 생분해성 플라스틱	Petro-based	Bio-based

[PHA Production]







Compostable Biopolymer Solution





Establishing a platform that enables circular and sustainable solutions by combining world-class bioprocess scale and microbial metabolic engineering technology portfolio

2016/ CJ
Acquired the technology and facilities of Matabolix in
Massachusetts, USA, a leading company in PHA technology

2020 / CJ Construction of a 5,000 ton/year PHA plant in indonesia 2023
developing PHA textile
products through
corperation between CJ and
ONECHANG

INNOVATION / PHA

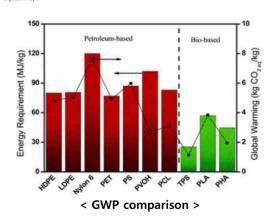
Only PHA can perform the marine biodegradation

 $\sqrt{=}$ yes / X = no

	Biodegradability			
Product ¹⁾	Industrial	Home	Soil	Marine
PLA	✓	X	X	X
PBS	1	Х	X	X
PBAT	1	X	X	X
TPS	✓	~	✓	X
аРНА	1	✓	✓	1
scPHA	/	1	/	1

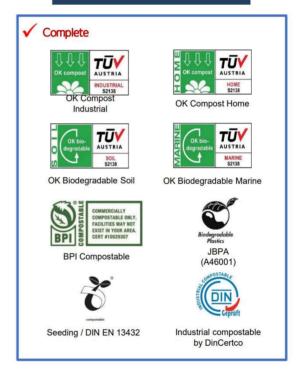
Conditions of Biodegradability		
TYPE	CONDITIONS	
Industrial	Composting facilities, Microbe, Oxygen at 58°C	
Home	Backyard(Home) landfill at 28°C	
Soil	Field, forest, soil at 25°C	
Marine	Sea at 30°C	

1) PLA (Poly Lactic acid), TPS (Thermoplastic Starch), PBAT (Polybutylene co-adipate co-terephthalate), PBS (Polybutylene Succinate), PHA (Polyhydroxy alkanoate, aPHA: amorphous / scPHA: semi crystalline)





Biodegradability Certificate



INNOVATION / FACILITY 2024

	Renewal	Benefit
Weaving mill	set up one more Auto drawing-in machine (current 1> 2 machines)	shortening weaving lead-time
	24 old water-jet looms were exchanged to new looms	decreasing greige defect rate and increasing weaving efficiency
	12 new water - jet looms with wider width(2,300 mm width type) will be prepared by July, 2024. 18 new air - jet looms with 2,300 mm width. (current 20> 50 wide width type machines)	wider width stretch fabrics can be available (maximum 89 inches in greige)
Dyeing mill	3 new rapid dyeing machines replace old machines	lower water consumption (2.5~3KL> 0.8~1KL / dyebath)
	will set up a continuous scouring machine (boil off)	improving capacity, efficiency and more stable qualities, especially for stretch items
	set up new CCK in tentering machines	automatically dispensing DWR, wicking, auxiliary agents and other chemicals.
Laminating mill	polyester glue for polyester mono content including membrane	mono content for textile recycling
Coating mill (subcontractor)	set up 3 low range Hydrostatic pressure testing machines (previous 2 machines)	maintaining the consistency of waterproofness in bulk production

* 6 / Global Business Partner





















































































Go Green Business!

