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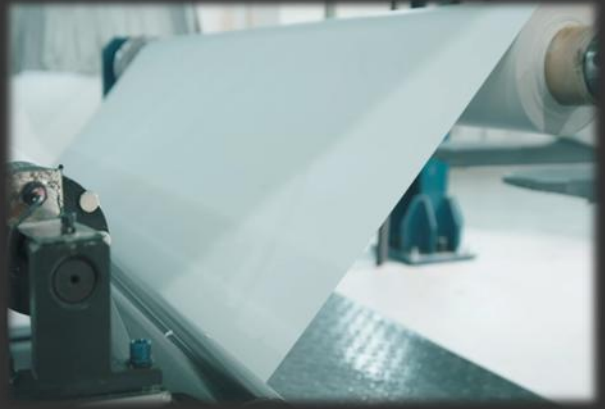
PRODUCT CATALOGUE

BULLETPROOF SERIES 2026



TZU has provided products and services to customers in more than 30 countries and regions around the world through stable quality and meticulous service. We will continue our efforts to provide safe and reliable protection for more countries and regions.

Offering products with better protection has always been TZU's mission, as it strives to innovate in product development and manufacturing processes. TZU is ISO9001 certified, and has dozens of practical patents for body armor/bulletproof inner core and explosion-proof stab-proof products. At the same time, there are several patents in the application review stage.





- TZU is a professional manufacturer of bulletproof products and suppliers of related materials, including bulletproof vests, bulletproof plates, helmets, bulletproof ceramics, and UHMWPE (ultra-high molecular weight polyethylene). High quality and competitive price are our advantage. Fast shipping speed ensures customer experience for buyers.
- With years' development, TZU has already become one of the most important manufacturers and R&D centers in the composite material industry of Taiwan. Solid research strength, first-class processing equipment and advanced testing equipment, enable our products to get good reputations in the market for its outstanding performance and stable quality, our protective products are exported abroad.



PE UD fabric, also known as PE weft free fabric, is a bulletproof material with the highest strength and lightest specific gravity, which is made by using ultra-high molecular weight polyethylene fibers as the substrate, impregnating high-strength elastic resin through equipment stretching, and bonding with the film.

UHMWPE is one of the world's three high-tech fibers (carbon aramid fiber and ultra-high molecular weight polyethylene fiber) and the toughest fiber in the world. It is light and thin like hair, hard as steel and 15 times stronger than steel.

BULLETPROOF VEST

The image is a vertical split-screen composition. The left half depicts a man in a black tactical vest and cap, looking off to the side with a concerned expression. He is in a dark, chaotic environment with smoke and debris. The right half shows a man in a green tactical vest and helmet, also looking off to the side. He is in a more structured environment with large stone arches. The overall tone is serious and emphasizes protection.

WE WILL

PROTECT YOU

 BX-018

Bulletproof Tactical Vest

GENERAL INFORMATION

·Model	BX-018
·Size	S M L (Customizable)
·Color	upon request

PERFORMANCE

·Protection Level	NIJ Level IIIA/III/IV
·Protective Coverage	front, back, two sides
·Protective Area	$0.25 \pm 0.05 \text{ m}^2$
·Ballistic Material	multi-layer UHMWPE/Aramid
·Weight	apx. 3-3.5kg/pc (including soft armor)



✦ BX-074



Bulletproof Tactical Vest

GENERAL INFORMATION

•Model	BX-074
•Size	S M L (Customizable)
•Color	upon request

PERFORMANCE

•Protection Level	NIJ Level IIIA/III/IV
•Protective Coverage	front, back
•Protective Area	$0.32 \pm 0.05 \text{ m}^2$
•Ballistic Material	multi-layer UHMWPE/Aramid
•Weight	apx. 2.65-2.85kg/pc (including soft armor)

Concealed Bulletproof Vest

GENERAL INFORMATION

- Model BX-028
- Size S M L (Customizable)
- Color upon request

PERFORMANCE

- Protection Level NIJ Level IIIA/III/IV
- Protective Coverage front, back
- Protective Area $0.18 \pm 0.05 \text{ m}^2$
- Ballistic Material multi-layer UHMWPE/Aramid
- Weight apx. 1.5-1.65 kg/pc
(including soft armor)



BX-041

Bulletproof Vest

GENERAL INFORMATION

- Model BX-041
- Size S M L (Customizable)
- Color upon request

PERFORMANCE

- Protection Level NIJ 0101.06 IIIA/III/IV
- Protective Coverage front, back
- Protective Area $0.4 \pm 0.05 \text{ m}^2$
- Ballistic Material multi-layer UHMWPE/Aramid
- Weight apx. 3-3.45 kg/pc
(including soft armor)



BX-028



Full-Body Bulletproof Vest

Model: V079

Performance: NIJ IIIA/III/IV

Protective Coverage: front, back, neck, waist, crotch, thigh

Protective Area: 0.62-0.64m²

Ballistic Material: multi-layer UHMWPE / Aramid

Size: S M L (customizable)

Weight: apx. 6.5-7kg/pc (including Soft Armor)

Color: upon request



It can switch between 4 forms, To meet various tactical requirements

- 1.Light and thin inner vest (suitable for training and concealed carrying)
- 2.Ordinary PC tactica vest (applicable to routine patrol and small-scale conflict)
- 3.Heavy bulletproof vest (applicable to front-line soldiers and front battlefield)
- 4.Reinforced heavy bulletproof vest including leg armor and bellow protection plugboard (applicable tohigh risk and high intensity conflicts)



Full-Body Bulletproof Vest

Model: TZU-V109

Performance: NIJ IIIA/III/IV

Protective Coverage: front, back, neck, waist, crotch

Protective Area: 0.62-0.64m²

Ballistic Material: multi-layer UHMWPE/
Aramid

Size: S M L

Weight: apx. 5.8-6.2kg/pc (including Soft
Armor)

Color: upon request



Full-Body Bulletproof Vest



BX-014



BX-015



BX-022



BX-033



BX-034



BX-045



BX-072



BX-073



BX-079



BX-085



BX-091



BX-109



Bulletproof Vest

Model: TZU-V001A1

Performance: NIJ IIIA

Protective Coverage: front and back

Protective Area: 0.28-0.32m²

Ballistic Material: multi-layer UHMWPE/
Aramid

Size: S M L XL 2XL 3XL (customizable)

Weight: apx. 3kg/pc (including Ballistic
Soft Armor)

Color: upon request



Bulletproof Vest



BX-001



BX-008



BX-035



BX-041



BX-043



BX-049



BX-050



BX-056



BX-064



BX-065



BX-074



BX-086



BX-089



BX-093



BX-111



BX-117



Bulletproof Tactical Vest

Model: TZU-V018

Performance: IIIA/III/IV

Protective Coverage: front, back

Protective Area: 0.34-0.37m²

Ballistic Material: multi-layer UHMWPE/
Aramid

Size: S M L (customizable)

Weight: apx. 3-3.5kg/pc (including Soft
Armor)

Color: upon request



Bulletproof Tactical Vest



BX-018



BX-031



BX-032



BX-042



BX-044



BX-048



BX-057



BX-061



BX-063



BX-080



BX-110



BX-119A



BX-119B



BX-119C



BX-122



BX-124



Quick Release Bulletproof Vest

Model: TZU-V083

Performance: NIJ IIIA/III/IV

Protective Coverage: front, back, waist

Protective Area: 0.18-0.2m²

Ballistic Material: multi-layer

UHMWPE(polyethylene)/ Aramid

Size: S M L(customizable)

Weight: apx. 3.5kg/pc (including Soft Armor)

Color: upon request



Quick Release Bulletproof Vest



BX-003



BX-023



BX-046



BX-053



BX-054



BX-060



BX-062



BX-068



BX-083



Concealed bulletproof vest inside

Model: TZU-V027D

Performance: NIJ IIIA

Protective Coverage: front and back

Protective Area: 0.13-0.15m²

Ballistic Material: multi-layer
UHMWPE(polyethylene) / Aramid

Size: S M L XL 2XL (customizable)

Weight: apx. 2kg/pc (including Ballistic
Soft Armor)

Color: upon request



Concealed bulletproof vest inside



BX-007



BX-019



BX-027A1



BX-027A5



BX-027A6



BX-027B



BX-027D



BX-028A2



BX-028D



BX-052



BX-069



BX-108



Bulletproof Helmet Specs

Model: TZU-HFAST

Performance: NIJ IIIA

Protective Area: 0.1-0.12m²

Thickness: 8-12mm $\pm$ 0.3mm

Ballistic Material:

UHMWPE(polyethylene) / Aramid

Size: M L XL

Weight: apx. 1.50-1.65 $\pm$ 0.05kg/pc

Color: black/upon request

FAST



Bulletproof Helmet Specs

Model: TZU-HMICH

Performance: NIJ IIIA

Protective Area: 0.1-0.12m²

Thickness: 8-12mm $\pm$ 0.3mm

Ballistic Material:

UHMWPE(polyethylene) /Aramid

Size: M L XL

Weight: apx. 1.5-1.65 $\pm$ 0.05kg/pc,

Color: black/upon request



MICH



Bulletproof Helmet Specs

Model: MID-CUT

Performance: NIJ IIIA

Protective Area: 0.1-0.12m²

Thickness: 8-12mm $\pm$ 0.3mm

Ballistic Material:

UHMWPE(polyethylene) /Aramid

Size: M L XL

Weight: apx. 1.65-1.7 $\pm$ 0.05kg/pc,

Color: black/upon request



MID-CUT





PASGT

Bulletproof Helmet Specs

Model: TZU-HPASGT

Performance: NIJ IIIA

Protective Area: 0.1-0.12m²

Thickness: 8-12mm $\pm$ 0.3mm

Ballistic Material:

UHMWPE(polyethylene) / Aramid

Size: M L

Weight: apx. 1.3-1.4 $\pm$ 0.05kg/pc,

Color: black/upon request



Bulletproof Helmet Specs

Model: TZU-TZUENDY

Performance: NIJ IIIA

Protective Area: 0.1-0.12m²

Ballistic Material:

UHMWPE(polyethylene)

Size: L

Weight: apx. 1.35±0.05kg/pc,

Color: black/upon request



WENDY





Level IIIA Soft Armor

- **MODEL # TZU-STTPC3A**
- Lightweight design
- Ultra-Thin profile
- Plate Carrier compatible
- Stand Alone, NIJ IIIA rated for pistol calibers up to .44 Magnum
- High performing and comfortable
- Size : as requiest.
- Professionally wrapped
- Made in TAIWAN

5 Year Manufacturer's Warranty

PE or Aramid Fiber design

600 D Water Resistant Cover



SQUARE



SAPI



SHOOTER'S CUT



Level III 10×12" Lightweight Pure PE Ballistic Plate

- **MODEL # TZU-TTPES3**
- Polyethylene composite
- High performing and comfortable
- Capable of taking multiple rifle rounds
- Weighs in at 3.85 pounds and measures 10 x 12"
- Professionally wrapped
- 5 Year Shelf Life
- Made in TAIWAN

5 Year Manufacturer's Warranty

PE design

600 D Water Resistant Cover



SQUARE



SAPI



SHOOTER'S CUT



Level III 6×6" Lightweight Bulletproof Plate

- **MODEL # TZU-SSPSS3**
- Polyethylene/Ceramic composite
- High performing and comfortable
- Capable of taking multiple rifle rounds
- Weighs in at 1.65 pounds and measures 6 x 6'
- Professionally wrapped
- 5 Year Shelf Life
- Made in TAIWAN

**Silicon carbide Ceramic and
PE design**

600 D Water Resistant Cover



SQUARE



SAPI



SHOOTER'S CUT



Level IV 10×12" Multi-Curve Ballistic Plate

- **MODEL # TZU-ETPAM4**
- Polyethylene/Ceramic composite
- High performing and comfortable
- Capable of taking multiple rifle rounds
- Weighs in at 9.0 pounds and measures 11 x 13.4"
- Professionally wrapped
- 5 Year Shelf Life
- Made in TAIWAN

**5 Year Manufacturer's
Warranty**
**Alumina Ceramic and PE
design**
**600 Denier Water Resistant
Cover**



SQUARE



SAPI



SHOOTER'S CUT



Level IV 10×12" Single-Curve Ballistic Plate

- **MODEL # TZU-TTPAS4**
- Polyethylene/Ceramic composite
- High performing and comfortable
- Capable of taking multiple rifle rounds
- Weighs in at 5.7- 6.5 pounds and measures 10 x 12"
- Professionally wrapped
- 5 Year Shelf Life
- Made in TAIWAN

**5 Year Manufacturer's
Warranty
Alumina Ceramic and PE
design
600 D Water Resistant Cover**



SQUARE



SAPI



SHOOTER'S CUT



BULLETPROOF HELMET

BULLETPROOF HELMET

GENERAL INFORMATION

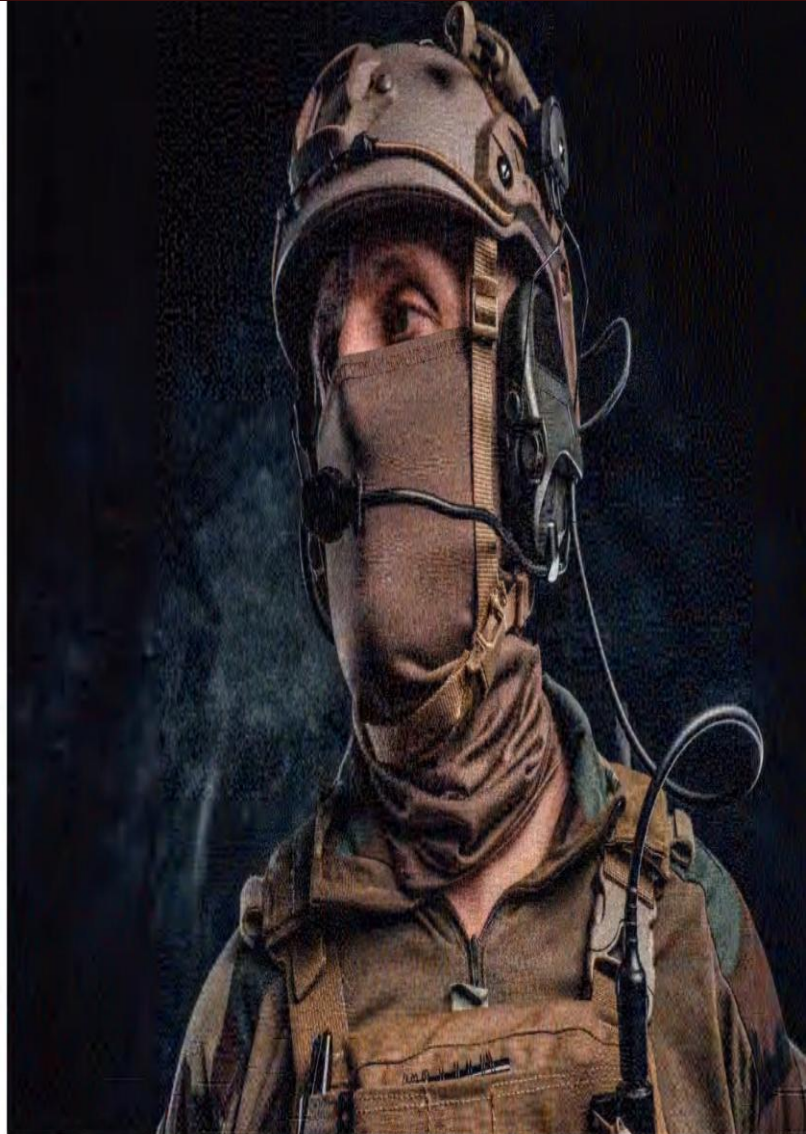


•Model	HW-H FAST
•Thickness	8-12mm $\pm$ 0.3mm
•Color	upon request
•Size	M L XL

PERFORMANCE



•Protection Level	NIJ Level IIIA
•Protective Coverage	Head protection
•Protective Area	0.1-0.12m ²
•Weight	apx. 1.50-1.65 $\pm$ 0.05kg/pc
•Ballistic Material	UHMWPE (polyethylene) / Aramid



BULLETPROOF HELMET

GENERAL INFORMATION



•Model	HW-H MICH
•Thickness	8-12mm $\pm$ 0.3mm
•Color	upon request
•Size	M L XL

PERFORMANCE



•Protection Level	NIJ Level IIIA
•Protective Coverage	Head protection
•Protective Area	0.1-0.12m ²
•Weight	apx. 1.50 $\pm$ 0.05kg/pc
•Ballistic Material	UHMWPE (polyethylene) / Aramid

BULLETPROOF HELMET

GENERAL INFORMATION



•Model	HW-H PASGT
•Thickness	8-12mm $\pm$ 0.3mm
•Color	upon request
•Size	M L

PERFORMANCE



•Protection Level	NIJ Level IIIA
•Protective Coverage	Head protection
•Protective Area	0.1-0.12m ²
•Weight	apx. 1.50 $\pm$ 0.05kg/pc
•Ballistic Material	UHMWPE (polyethylene) / Aramid



BULLETPROOF VISOR & BULLETPROOF SHIELD

BULLETPROOF VISOR

GENERAL INFORMATION

·Model	HW-BPV
·Size	140x350x21.5mm (Ordinary)
·Color	Transparent

PERFORMANCE

·Protection Level	NIJ IIIA . 44 Magnum
·Protective Coverage	Face protection
·Protective Area	>0.05 m²
·Weight	apx. 1.30 Kg ±0.2 kg
·Material	PC + PU + PMMA



BULLETPROOF SHIELD

GENERAL INFORMATION

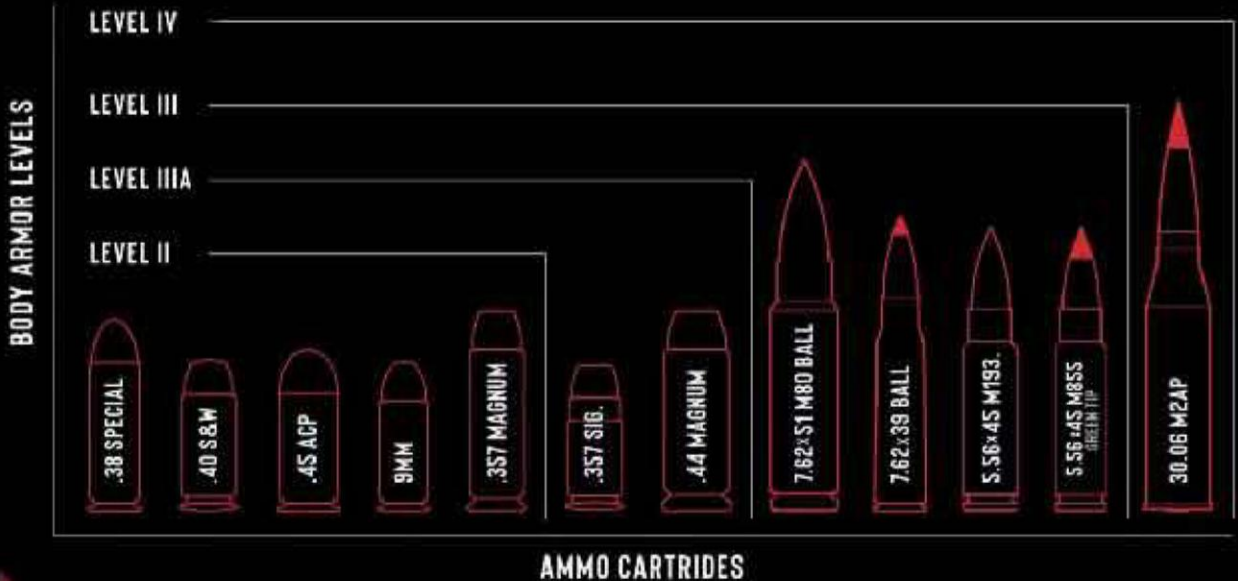
·Model	HW-S007A
·Composition	Three bulletproof plates
·Window size	Left and right: 180mm * 180mm Central window: 450mm * 180mm
·Bulletproof plates size	1800mmx600mm x 3 pieces, Thickness: ≤ 6.2mm ± 1

PERFORMANCE

·Protection Level	NIJ 0108.01 III
·Protective Area	about 3 m²
·Weight	≤180kg
·Material	Bulletproof Steel
·Observation window	Special bulletproof glass
·Glass thickness	39.1mm



BALLISTIC ARMOR LEVELS



TZU Bulletproof Briefcase

Model: TZU-BC003

Performance: NIJ Level IIIA

Briefcase Size: 900x400mm (Ordinary)

Ballistic Size: 890x390mm (Ordinary)

Thickness: 25mm

Protective Area: 0.34m²

Ballistic Material: UHMWPE(polyethylene)
/ Aramid

Cover Material: 900D (Oxford)

Color: Black

Weight: apx. 2.59±0.05kg/pc (including
Ballistic Soft Armor)



Bulletproof Briefcase/Backpack



BC001



BC003



BB001



BB009



BB010



BB011



TZU Bulletproof Shield

Model: TZU-S006

Performance: NIJ Level III

Size: 770*485mm (Ordinary)

Thickness: 18mm

Protective Area: 0.37m²

Ballistic Material: multi-layer UHMWPE(polyethylene)

Cover Material: Polyurea

Color: Black

Weight: apx. 8.28±0.05kg/pc



Bulletproof Shield



TZU-S002



TZU-S003



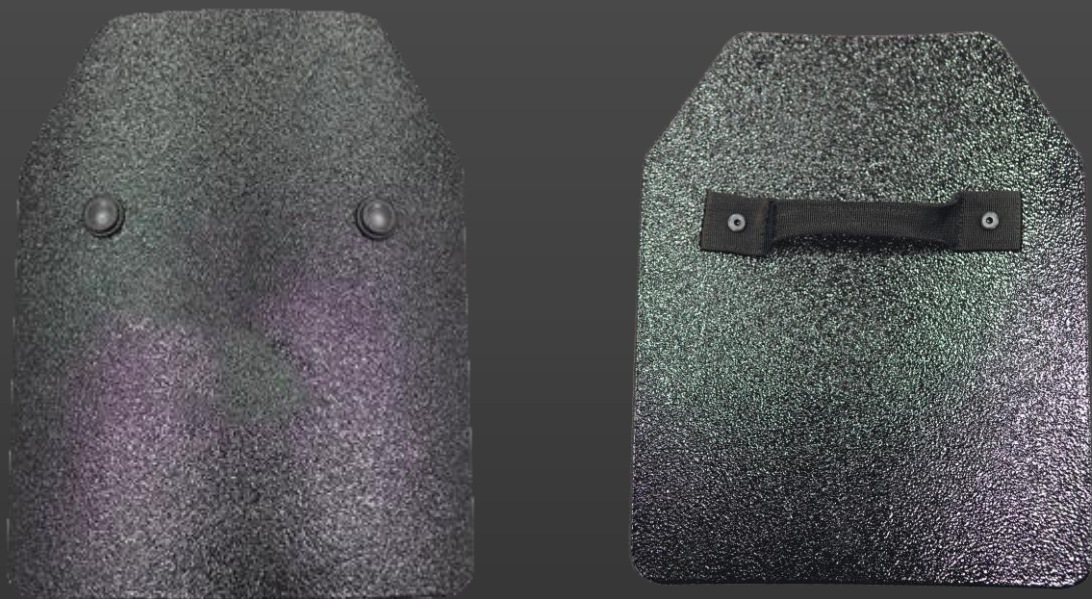
TZU-S004



TZU-S005



TZU-S006



TZU Bulletproof Shield

Model: DEFHPE3A

Performance: NIJ Level III

Size: 280*356mm

Thickness: 6mm

Ballistic Material: multi-layer UHMWPE(polyethylene)

Cover Material: Polyurea

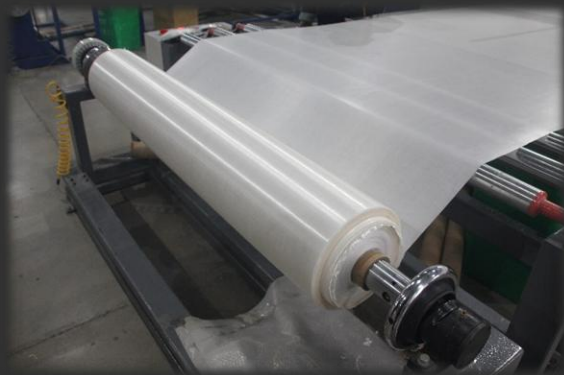
Color: Black

Weight: apx. 0.98 ± 0.05 kg/pc

The Level IIIA shield protect you from threats including 9mm, .38 Special, .357 Magnum, and .44 Magnum rounds.



PE UD fabric, also known as PE weft free fabric, is a bulletproof material with the highest strength and lightest specific gravity, which is made by using ultra-high molecular weight polyethylene fibers as the substrate, impregnating high-strength elastic resin through equipment stretching, and bonding with the film. It is then subjected to $0^{\circ}/90^{\circ}$ orthogonal composite lamination. It has excellent properties such as soft hand, low density, abrasion resistance, impact resistance, cutting resistance and toughness. The products are widely used in soft bulletproof vests, lightweight bulletproof helmets, lightweight bulletproof armor plates, stab resistant and other products.



United States of America

To Promote the Progress



of Science and Useful Arts

The Director

of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this United States

Patent

grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

Katherine Kelly Vidal

DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



(12) United States Patent
Lee
(16) Patent No.: US 12,076,902 B2
(45) Date of Patent: Sep. 3, 2024

(54) ULTRA-HIGH-MOLECULAR-WEIGHT FIBER MANUFACTURING METHOD AND SYSTEM
(71) Applicant: QUANN CHENG INTERNATIONAL CO., LTD., Pingtung (TW)
(72) Inventor: Hsiang-Hsun Lee, Kaohsiung (TW)
(73) Assignee: QUANN CHENG INTERNATIONAL CO., LTD., Pingtung County (TW)
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 473 days.

(21) Appl. No. 17922376
(22) Filed: Nov. 16, 2021
(65) US 2023/0090115 A1 Apr. 13, 2023
(30) Foreign Application Priority Data
Oct. 8, 2021 (TW) 11013751

(51) Int. Cl. (2019.01)
B29C 4805 (2019.01)
B29C 4806 (2019.01)
B29C 4829 (2019.01)
B29C 4902 (2019.01)
D01D 5084 (2006.01)
D01D 5180 (2006.01)

(52) U.S. Cl. (2019.02): B29C 4806/01
CPC: B29C 4829 (2019.02); B29C 4802 (2019.02); D01D 5084 (2019.01); D01D 5180 (2019.01)



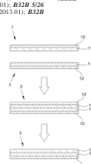
(12) United States Patent
Lee
(16) Patent No.: US 12,420,540 B2
(45) Date of Patent: Sep. 23, 2025

(54) METHOD AND SYSTEM FOR MANUFACTURING LIGHTWEIGHT COMPOUNDED UNIDIRECTIONAL CLOTH
(71) Applicant: QUANN CHENG INTERNATIONAL CO., LTD., Pingtung (TW)
(72) Inventor: Hsiang-Hsun Lee, Kaohsiung (TW)
(73) Assignee: QUANN CHENG INTERNATIONAL CO., LTD., Pingtung (TW)
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 123 days.

(21) Appl. No. 18409265
(22) Filed: Sep. 19, 2023
(65) US 2024/0308199 A1 Sep. 19, 2024
(30) Foreign Application Priority Data
Mar. 17, 2023 (TW) 112109498

(51) Int. Cl. (2006.01)
B29B 9019 (2006.01)
B29B 902 (2006.01)
B29B 912 (2006.01)
B29B 926 (2006.01)
B29B 936 (2006.01)
B29B 938 (2006.01)
B29B 939 (2006.01)
B29B 942 (2006.01)
B29B 948 (2006.01)

(52) U.S. Cl. (2006.01)
B29B 9019 (2019.01); B29B 902 (2019.01); B29B 912 (2019.01); B29B 926 (2019.01); B29B 936 (2019.01); B29B 938 (2019.01); B29B 939 (2019.01); B29B 942 (2019.01); B29B 948 (2019.01)



(12) United States Patent
Lee
(16) Patent No.: US 12,351,959 B2
(45) Date of Patent: Jul. 8, 2025

(54) PROTECTIVE CLOTH WITH MOISTURE PERMEABILITY AND MANUFACTURING METHOD THEREOF
(71) Applicant: QUANN CHENG INTERNATIONAL CO., LTD., Pingtung (TW)
(72) Inventor: Hsiang-Hsun Lee, Kaohsiung (TW)
(73) Assignee: QUANN CHENG INTERNATIONAL CO., LTD., Pingtung (TW)
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 708 days.

(21) Appl. No. 17477519
(22) Filed: Sep. 16, 2021
(65) US 2023/005000 A1 Feb. 26, 2023
(30) Foreign Application Priority Data
Aug. 10, 2021 (TW) 110129502

(51) Int. Cl. (2006.01)
D04H 1/4 (2018.01)
D04H 1/41 (2018.01)
D04H 1/42 (2018.01)
D04H 1/43 (2018.01)
D04H 1/44 (2018.01)
D04H 1/45 (2018.01)
D04H 1/46 (2018.01)
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D04H 1/96 (2018.01)
D04H 1/97 (2018.01)
D04H 1/98 (2018.01)
D04H 1/99 (2018.01)
D04H 1/100 (2018.01)





T Z U

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