

COMPANY PROFILE

公司簡介

新光合成纖維股份有限公司主要產品分為化纖和塑膠兩大類，化纖產品包括環保回收絲、聚酯加工絲、工業用紗；塑膠產品有瓶用聚酯粒、工程塑膠、熱塑性彈性聚酯粒、寶特瓶&瓶胚、光學薄膜、聚酯膠片等產品。

Shinkong Synthetic Fibers Corporation (SSFC in abbreviation) provide two sort of products- Polyester filament and Polymer product. Polyester filament include Recycle Polyester Filament, Polyester Draw Textured Yarn, Industrial Yarn. While Polymer product contains PET bottle grade resin, Engineering polymers, Thermoplastic elastic polyester resin, Bottles&Bottle preform, Optical film and A-PET sheet.

SHINITE® ADVANCED MATERIALS

尖端材料

尖端材料 (SHINITE® Advanced Materials) 產品包含純樹脂：PBT、PET、TPEE以及改性塑膠：PBT、PET、PA6/66、PP、PC/PBT Alloy、TPEE。SHINITE®尖端材料旨在提供無毒、環境友善的高功能複合材料供應各種應用。新光工程塑膠採用RoHS法規所規範的製程，取得ISO9001、ISO14001、IATF16949、SGS、UL、GRS等認證。

SHINITE® Advanced Materials develop into 2 parts - Neat Resin and Compounding Resin. In Neat Resin section, we provide PBT, PET, TPEE, while for Compounding Resin part are PBT, PET, PA6/66, PP, PC/PBT Alloy, TPEE. SHINITE® Advanced Materials is always engaging in its mission to provide non-toxic and environment friendly high-tech materials to various applications!

SHINITE® materials comply with RoHS regulation: ISO9001, ISO14001, IATF16949, SGS, UL, GRS certificates.



SHINITE® ADVANCED MATERIALS GLOBAL LOCATIONS

全球據點

台灣總公司
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台灣中壢廠
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台灣觀音廠
GuanYi Plant(Taiwan)
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廣州所織貿易有限公司
Shinkong Trading(GuangZhou) Co., Ltd.
廣東省廣州市天河區黃埔大道西33號
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新纖應用材料(江蘇)有限公司
Shinkong Applied Materials (Jiangsu) Co.,Ltd.
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Thai Shinkong Industry Corporation
TEL: +66-2-266-3299

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Shinkong Synthetic Fibers Corp.

We endeavor to deliver value in terms of better performance and enhance sustainability to achieve net-zero CO₂ emissions.

SHINITE® ADVANCED MATERIALS



SHINITE® PBT NEAT RESIN – D201 SERIES

| SERIES | LEVEL | GRADE | APPLICATIONS |
|--------|------------------------|---|---|
| D201 | 押出級 Extrusion grade | DHKL01 (IV=0.75 ± 0.02) | PBT押出級，低IV規格 PBT Extrusion Grade, Low viscosity |
| | | DHK002 (IV=0.87 ± 0.02) | PBT押出級，標準IV規格 PBT Extrusion Grade, Standard viscosity |
| | | DHK006 (IV=1.00 ± 0.02) | PBT押出級，中IV規格 PBT Extrusion Grade, Medium viscosity |
| | | DHK011 (IV=1.20 ± 0.02) | PBT押出級，高IV規格 PBT Extrusion Grade, High viscosity |
| | | DHKF002 (IV=0.87 ± 0.02) | PBT押出級，標準IV規格，紡絲專用 PBT Extrusion Grade, Standard viscosity, For Filament |
| | | DK5006, DK5016, DK5036 (IV=1.20~1.25 ± 0.02) | PBT押出級，高IV規格(固相聚合)，光纖束管、薄膜專用 (Solid State Polymerization), For Optical fiber, Film |

SHINITE® ENGINEERING PLASTIC – INJECTION GRADE

| SERIES | LEVEL | SPECIFICATIONS | GRADE | APPLICATIONS |
|------------------------------|---|----------------|---|--|
| SHINITE® PBT INJECTION GRADE | | | | |
| D series | 玻纖強化級 Reinforced with glass fiber (10%~30%) | D201G10~G30 | DE8009, DE3011 | 汽車後視鏡、車門把手、汽車點火系統 Rearview mirror, Vehicle door handle and Ignition system |
| | 阻燃、玻纖強化級 Flame retardant, reinforced with glass fiber (0%~30%) | D202G00~G30 | DH4803, DH4883 DF4806, DF4886 | 微動開關、繼電器外殼、汽車零件 Microswitch, Electric relay and Automotive parts |
| E series | 阻燃、玻纖強化級 Flame retardant, reinforced with glass fiber (0%~30%) | E202G00~G30 | DE3803, DE3883 DE3806, DE3886 | 連接器、電子零件、散熱風扇、馬達零件 Connector, Electronic parts, Cooling fan and Motor parts |
| F series | 無鹵阻燃、玻纖強化級 Halogen free, reinforced with glass fiber(0%~30%) | F216 | DP6800, DP6880 | 符合歐盟無鹵規範， 可用於各式無鹵需求之部件 Flame retardant meet EU halogen-free standards, apply for various components that require halogen-free |
| | | F202G15~G30 | 高流動 High fluidity: DH6006, DH6003 | |
| SHINITE® PET INJECTION GRADE | | | | |
| T series | 一般級 General | T101 | TH8002 | 半成品原料，供後端再加工 Semi-finished raw material for back-end processing |
| | 強化級 Reinforced with glass fiber | | TD8003 | 電器零件 Electrical parts |
| | 阻燃強化級 Flame retardant, reinforced with glass fiber | T102 | TH3012, TH3013 | 保險絲盒外殼、端子台、電器開關零件 Fuse box casing, Terminal block and Electrical switch parts |

| SERIES | LEVEL | SPECIFICATIONS | GRADE | APPLICATIONS |
|--------------------------------|--|------------------|----------------------------------|--|
| SHINITE® NYLON INJECTION GRADE | | | | |
| N series | 阻燃、玻纖強化級 Flame retardant, reinforced with glass fiber (15%~30%) | N602 | 6783B2, 6786B3, 6706B1 | 端子台、線圈軸、連接器 Terminal block, Coil bobbin and Connector |
| F series | 無鹵阻燃、玻纖強化級 Halogen free, reinforced with glass fiber(15%~25%) | F616 | NF4215, NF4115 NF4225, NF4125 | 符合歐盟無鹵規範， 可用於各式無鹵需求之部件 Flame retardant meet EU halogen-free standards, apply for various components that require halogen-free |
| SHINITE® PP INJECTION GRADE | | | | |
| P series | 阻燃、玻纖強化級 Flame retardant, reinforced with glass fiber | P301, P302, P305 | UL94V0: PH3041 (PP4410) | 風扇葉片、內裝飾板 Cooling fan, Trim panel |
| | | | UL94V2: PC3042 (PP4210) | 小家電外殼、暖風機外殼 Casing for small household appliance, Space heater |
| SHINITE® ALLOY INJECTION GRADE | | | | |
| A series | 低溫耐衝級 Low temperature impact resistance grade | A724 | AD4011 | 汽車保險桿、安全帽 Vehicle bumper, Safety helmet |

SHINITE® THERMOPLASTIC POLYESTER ELASTOMER (TPEE)

| SERIES | LEVEL | SPECIFICATIONS | GRADE | APPLICATIONS |
|-----------|----------------|----------------------------|-----------------------------------|---|
| DH series | 一般級 General | S201 (Shore D: 28 ~ 70) | 低硬度 Low hardness: DH4000 | 汽車零件、彈性纖維、透濕防水膜 Automotive parts, Elastic fiber, Breathable-waterproof membrane |
| | | | 中硬度 Medium hardness: DH5525 | |
| | | | 中硬度 Medium hardness: DH6000 | |
| | | | 高硬度 High hardness: DH7200 | |

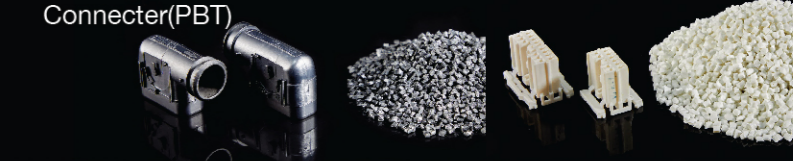
上述產品皆取得UL認證，並經第三方公正檢測單位檢驗通過RoHS和SVHC規範
All specs mentioned above are UL approved, and comply with RoHS & SVHC regulation.
以上僅為部分規格，詳細請洽新光合成纖維公司-尖端材料事業部
The above are partially mentioned. For detail, please contact SHINITE® Advanced Materials Department.
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SHINITE® ADVANCED MATERIALS

風扇
Cooling fan
(PBT)



連接器
Connector(PBT)



充電槍
Charging gun(PBT)



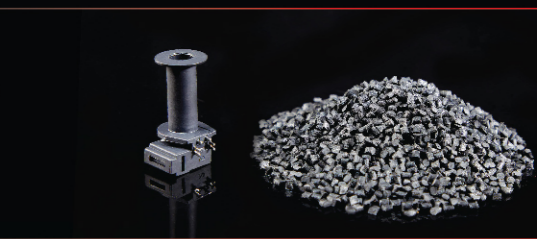
車燈擋板
Lamp holder
(PBT)



高壓連接器
High voltage
connector
(PBT)



線圈骨架
Coil bobbin (PET)



安全帽
Helmet(PC/PBT Alloy)



避震器防塵套&輸油球
Shock absorber dust boot cover &
Manual oil suction pump(TPEE)





Shinkong Synthetic Fibers Corp.

Showcasing Infinite Flexibility, Inspiring Unlimited Innovation,
TPEE Leading the Future.

SHINITE TPEE

Eco-friendly and Sustainable material

Superior Performance

Renewable Resources & Recyclability

Variety of Material Properties



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CONSUME PRODUCT



SHINITE TPEE (Textile series):

SHINITE TPEE offers outstanding elasticity recovery and fatigue resistance, making it the prime choice for producing high-quality elastic textiles. With its high stretch retention rate, textiles can maintain a stable shape and reduce deformation. Additionally, it boasts excellent abrasion resistance and resistance to yellowing, thus extending the product's lifespan. Compared to spandex, a notable feature of SHINITE TPEE (Textile series) is its single material composition, allowing for recycling to be used in loop replication. The spinning process also eliminates the need for solvents, aligning with the goals of a green economy.



SHINITE TPEE (Foam series) :

Exceptional mechanical properties grant products outstanding lightweight characteristics and superior shock absorption performance. Compared to other foaming materials, SHINITE TPEE (Foam series) boasts excellent temperature resistance and weather resistance, showing resistance to aging and degradation. With remarkable elastic recovery, SHINITE TPEE (Foam series) ensures that products maintain a stable shape even after prolonged use, thereby enhancing their lifespan. SHINITE TPEE (Foam series) products find wide-ranging applications in fields such as sports equipment, automotive components, and medical devices.



WATERPROOF & BREATHABLE

SHINITE TPEE (WB series) demonstrates excellent performance in the field of waterproof and breathable membranes. Its superior weather resistance compared to TPU results in more durable products. SHINITE TPEE (WB series) waterproof and breathable membranes possess high breathability and waterproofing capabilities, effectively blocking water penetration while maintaining good air permeability. Being of the same material as polyester fibers, it aligns with the global consensus on products with a single material, making it an ideal choice for functional fabrics. Additionally, we have introduced eco-friendly SHINITE TPEE (WB series) waterproof and breathable membranes made from recycled PET bottles as well as green SHINITE TPEE (WB series) membranes sourced from plant-based materials.



ADHESIVE

The use of low-melting SHINITE TPEE (LM series) to produce hot melt adhesive films and hot melt adhesive strips results in excellent adhesive strength and weather resistance. These are applied in the bonding/lamination of polyester materials, achieving the environmentally friendly goal of material unification. For instance, the use of SHINITE TPEE (LM series) hot melt adhesive can replace stitching in polyester fabrics, aligning with the trend of industrial automation. In the textile industry where manual labor is heavily utilized, SHINITE TPEE (LM series) hot melt adhesive simplifies the manual sewing process, reducing labor and enhancing processing efficiency.

AUTOMOTIVE

SHINITE TPEE materials are increasingly utilized in various automotive components. Their lightweight, corrosion resistance, and wear resistance characteristics make them suitable for manufacturing vehicle body components, interior parts, and automotive seals. The application of SHINITE TPEE materials improves the performance and reliability of automotive parts while reducing overall weight and enhancing fuel efficiency.

APPLICATION
CVJ / SHIFT LEVER PARTS / TUBES

CABLE

SHINITE TPEE wire and cable boast excellent insulation and wear resistance properties, widely used in power, communication, and automotive electronic products. Their outstanding electrical characteristics ensure reliable operation under extreme conditions, while their durability extends the product's lifespan.

APPLICATION
CABLE COATING / ELECTRIC WIRE COATING

MEDICAL DEVICE

SHINITE TPEE's excellent chemical resistance and mechanical strength contribute to its outstanding fatigue resistance. It is more easily processed and molded compared to rubber, making it environmentally friendly and recyclable, with the ability to utilize post-consumer recycled materials (PCR). SHINITE TPEE can be used for medical aids with varying hardness requirements, maximizing material simplification.

APPLICATION
SEALINGS / TUBES / BRACES



Recycled Products

Recycled PET

Using 100% Post-Consumer Recycling (PCR) PET bottle flakes to re-produce r-PET. Carbon emissions are reduced by 63%.



Recycled PBT

Collect PCR bottles to make recycle PET and compound with PBT, glass fibers and additives. Recycle materials percentage will be 14-30%. Carbon emissions reduce by 25%.



Recycled PP Compound

Containing 50% Post-Consumer Recycling (PCR) polypropylene to compound as advanced material, r-PP can reach to 40% reduction of carbon emissions.



Recycled TPEE

Taking PET bottle flakes as raw materials, r-TPEE carbon emissions can be reduced by 25%.



Bio Degradable Products

PBAT

SHINITE PBAT is a compostable plastic, encompassing high flexibility and tear resistance. Also, PBAT is cost efficient so it's commonly applied to films and packages.

PBS

SHINITE PBS is an eco-friendly bioplastic, which can be decomposed into CO₂ and H₂O by microorganism in soil. Compare to other biodegradable polymers, PBS performs with better flexibility, heat resistance and excellent processability.

Bio & Carbon-Capture Products

Bio PET / PBT / TPEE

SHINITE Bio materials use bio-mass to make renewable feedstocks. The technique can capture carbon footprint, acting as an enabler for various types of downstream products with sustainability benefits. Bio based materials are chemically & physically the same as petroleum based materials.

Carbon-Capture PET

Using emitted CO₂ from heavy industries to manufacture EG, so as to produce carbon capture PET.

CO₂ Emissions Reduction

