



FILAMENT

Anticipating & Innovating Sustainable Solutions
For Infinite Possibilities

目錄

Content

Eco Friendly Series

02 聚酯回收纖維 FENC® TopGreen® Recycled PET Filament

04 生質聚酯纖維 FENC® TopGreen® Bio PET Filament

06 聚酯原抽彩色纖維 FENC® TopGreen® Dope Dyed Filament

07 常壓陽離子深染聚酯纖維 FENC® TopGreen® EZ Dyed CD Filament

08 非銻觸媒聚酯纖維 FENC® TopGreen® Sb Free Filament

Thermal Management Series

10 吸濕排汗纖維 FENC® TopCool® Filament

12 疏水快乾纖維 FENC® TopDry® Filament

14 高抗紫外線纖維 FENC® Solarfree⁺ Filament

15 隔熱纖維 FENC® Solarfree^{RED} Filament

16 光致發熱纖維 FENC® Sunex Filament

Health & Safety Series

18 阻燃纖維 FENC® Fita Filament

19 抑菌纖維 FENC® Eagelon® Filament

Waterproof Breathable Series

20 防水透濕 再生聚酯薄膜 FENC® TopGreen® membrane

Contact us

綠色環保系列

Eco Friendly Series



FENC® TOPGREEN®

Recycled Filament / Recycled CD Filament / Recycled Stretch Filament



Recycled PET Filament 聚酯回收纖維

產品簡介 以回收寶特瓶為原料，經過粉碎、清洗、分解、聚合、造粒、加熱熔融、抽絲及假撚加工製成的纖維，是對地球生態絕對環保之素材。

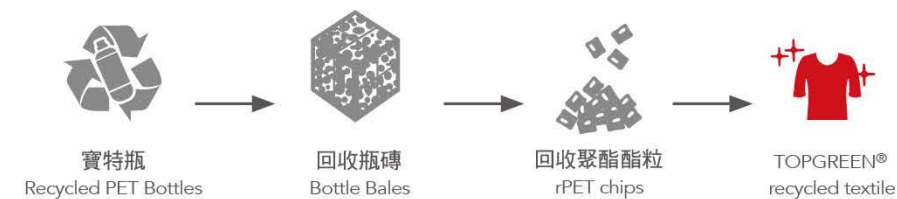
TOPGREEN® recycled filament is an outstanding environment-friendly fiber based on the material of recycled post-consumer PET bottles, which were processed through grinding, washing, melting, re-polymerizing, spinning, and texturizing to yarn.

產品特色

- 使用最環保的回收技術，製成的再生纖維
Utilizes the most state-of-the-art recycling
- 減輕環境負擔，善盡地球公民責任
Repurposes waste, reduces our reliance on petrochemicals and prevents environmental pollution
- 可追溯性
FENC® Recycling is completely traceable from post consumer to yarn

認證

- GRS(CU815435GRS-02.2017)
- SCS(SCS-MC-02150)
- 台灣環保標章 Taiwan Green Mark (Issued by Taiwan EPA)
- Oeko-tex Standard Approved



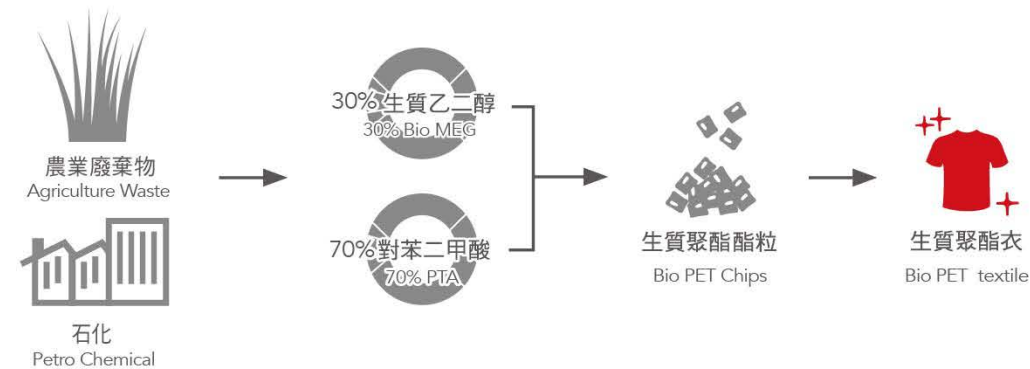
Bio PET Filament 生質聚酯纖維

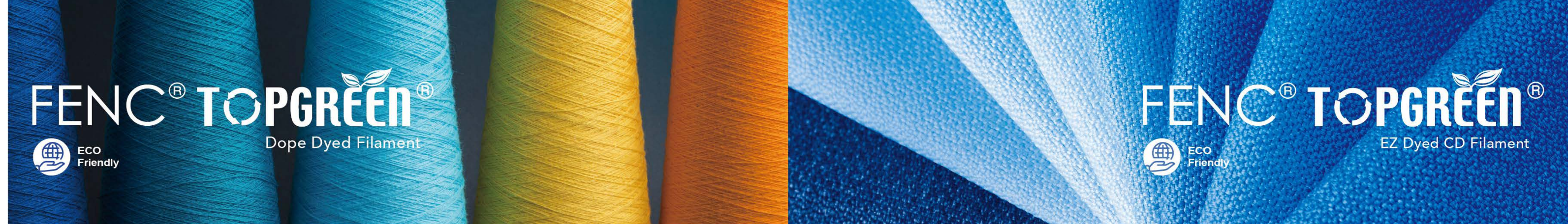
產品簡介 採用生質製成之乙二醇，致力減少石油開採，降低環境、自然生態的破壞，遠東新世紀致力運用新科技，尋找、開發來自自然界的植物原料以降低對原油的依賴，同時開發永續循環的生產技術，為地球及紡織界盡一份心力。

Bio-based PET provides a bridge to better sustainability by truly closing the carbon loop.

產品特色

- 生質原料來自非食用級植物，運用農業生技提煉生產而來。
All of the bio PET material is coming from non-food plants and agriculture waste.
- 生質聚酯含有30%的Bio-MEG(生質乙二醇)及70%來自石化的PTA(對苯二甲酸)。
30% Bio MEG and 70% petro-based PTA





Dope Dyed Filament 聚酯原抽彩色纖維

產品簡介 在抽絲過程加入色粒製成纖維，織布後免染色可大幅節省用水、能源耗損及廢氣 CO₂ 排放量，是新一代環保節能纖維，更提供較佳的耐日光色牢度、耐水洗色牢度…等。

By adding different color master batch with a certain percentage during spinning POY, the fabrics made with dope dyed filament can skip dyeing process, and save a lot of water/energy consumption and CO₂ emission. Dope dyed filament is a latest generation of eco friendly product which can provide better fastness to sunlight and washing.

產品特色

- 顏色鮮豔且色牢度佳，高耐水洗
Superior fastness to sunlight and washing
- 不易褪色 環保、節能、無廢水汙染
Sustainable, reduces water and energy use
- 可配合客戶指定顏色、小量多樣生產
Dynamic color palate range and small minimum order quantities (MOQ)

EZ Dyed CD Filament 常壓陽離子深染聚酯纖維

產品簡介 常壓陽離子深染聚酯纖維具有節省能源、良好加工性、較佳染色力度，紗線具染溫低及染後顏色鮮豔，可搭配低溫素材如棉花、羊毛、尼龍等，生產雙色調之外，適合休閒服飾及戶外運動服飾等。

EZ Dyed allows for low temperature dyeing at ambient pressures without compromise to brilliance nor luster. Perfectly suited for blending with heat sensitive natural fibers or unique coloration effects.

產品特色

- 常壓可深染
Deep dyeing at ambient pressure
- 染色力度佳
Outstanding dyeability
- 水洗牢度佳
Excellent fastness to washing



FENC[®] TOPGREEN[®]

Sb Free Filament



ECO
Friendly

Sb Free Filament 非銻觸媒聚酯纖維

產品簡介 常規聚酯在生產時均會使用微量銻觸媒產品，對人體使用上是無害的；但銻於自然界經分解且長期累積後，對於環境及人體健康仍有疑慮，因此遠東新世紀開發出非銻觸媒聚酯纖維。

Antimony(Sb) catalyst is commonly used during polyester synthesis. It's harmless for human, but antimony(Sb) is a kind of the heavy metal. If it's discharged into environment permanently, will be a damage to our environment and human body.

產品特色

- 非重金屬觸媒 No heavy metal content
- 降低環境衝擊 Eco friendly
- 減少健康危害 Reducing harm to environment and human body



溫度調節系列

Thermal Management Series



FENC® *TopCool*®
Recycled / UV-cut



ECO
Friendly



UV Cut &
Heat Protective



Moisture
Managment

Quick Wicking Filament 吸濕排汗纖維

產品簡介 TopCool® 具有吸濕排汗功能，利用異形斷面溝槽將肌膚表面濕氣與汗水經由蕊吸、擴散、傳輸作用，快速排至布表，將汗水擴散並迅速蒸發掉，使肌膚保持乾爽舒適，有快乾、好清洗等特色。

TopCool® quickly and easily moisture manages. Cross-sections further decrease capillary diameter to enhance moisture transport and spread.

產品特色

- 環保材質 Eco-friendly material
- 阻擋紫外線 UV-cut
- 快速排汗 Moisture managment
- 乾爽舒適 Dry touch with comfort

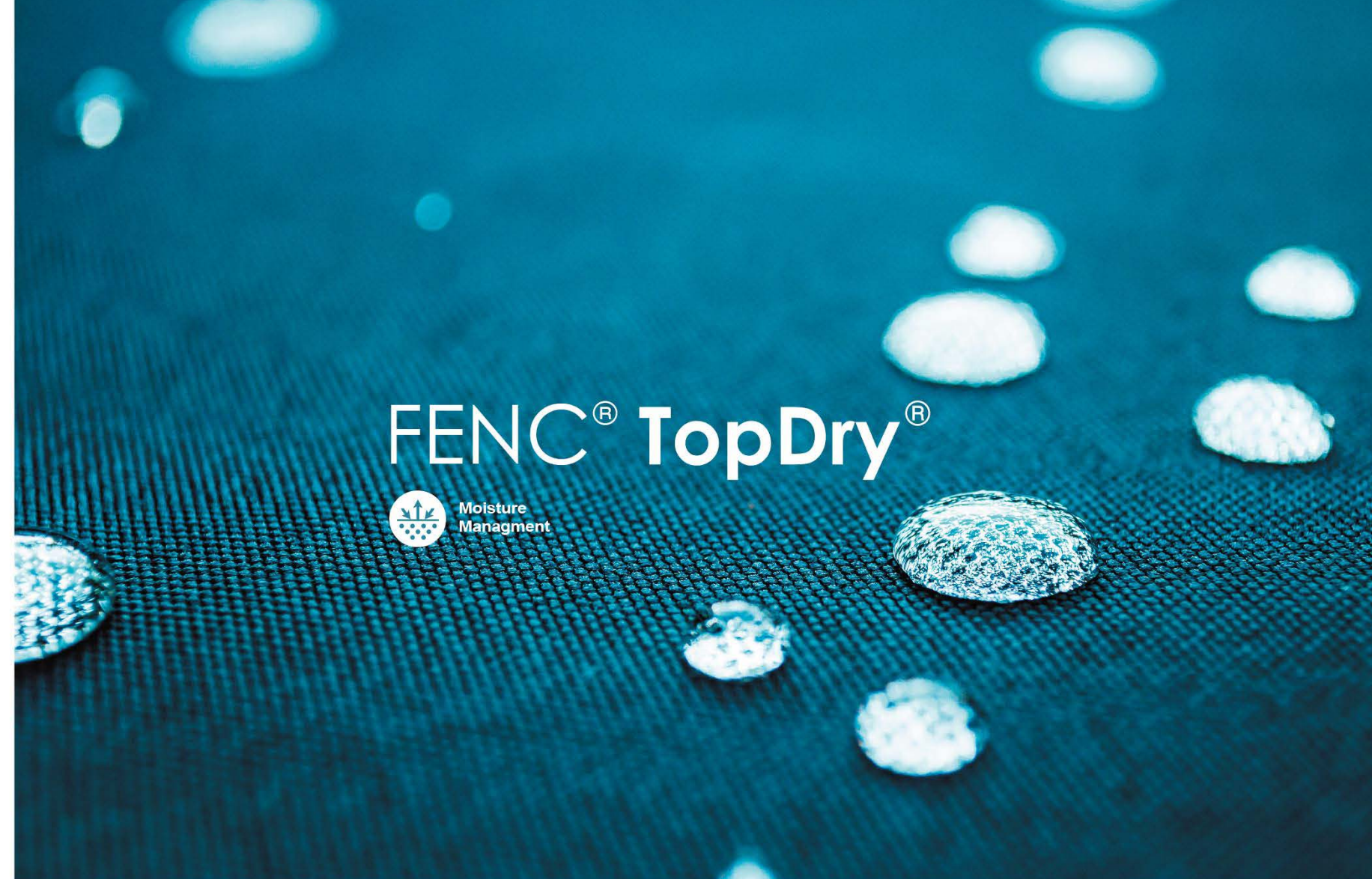
Hydrophobic Filament 疏水快乾纖維

產品簡介 在紡絲中添加不含毒性物質環保撥水劑，讓纖維呈現疏水快乾特性，應用在布料中，織物具有吸濕後倍速快乾、濕度管理、可達到乾爽舒適的要求。

By adding the non-toxic additive during spinning, TopDry® raises the bar in one way wicking performance to provide a true dry interior, thus effectively eliminating skin clamminess to maximize comfort.

產品特色

- 長效型疏水 Durable hydrophobicity
- 適用於一般PET染色 Compatible with conventional polyester dye processes
- 優異色牢度 Enhance color fastness
- 可做複合多功能面料 Easy to make multi-function fabric

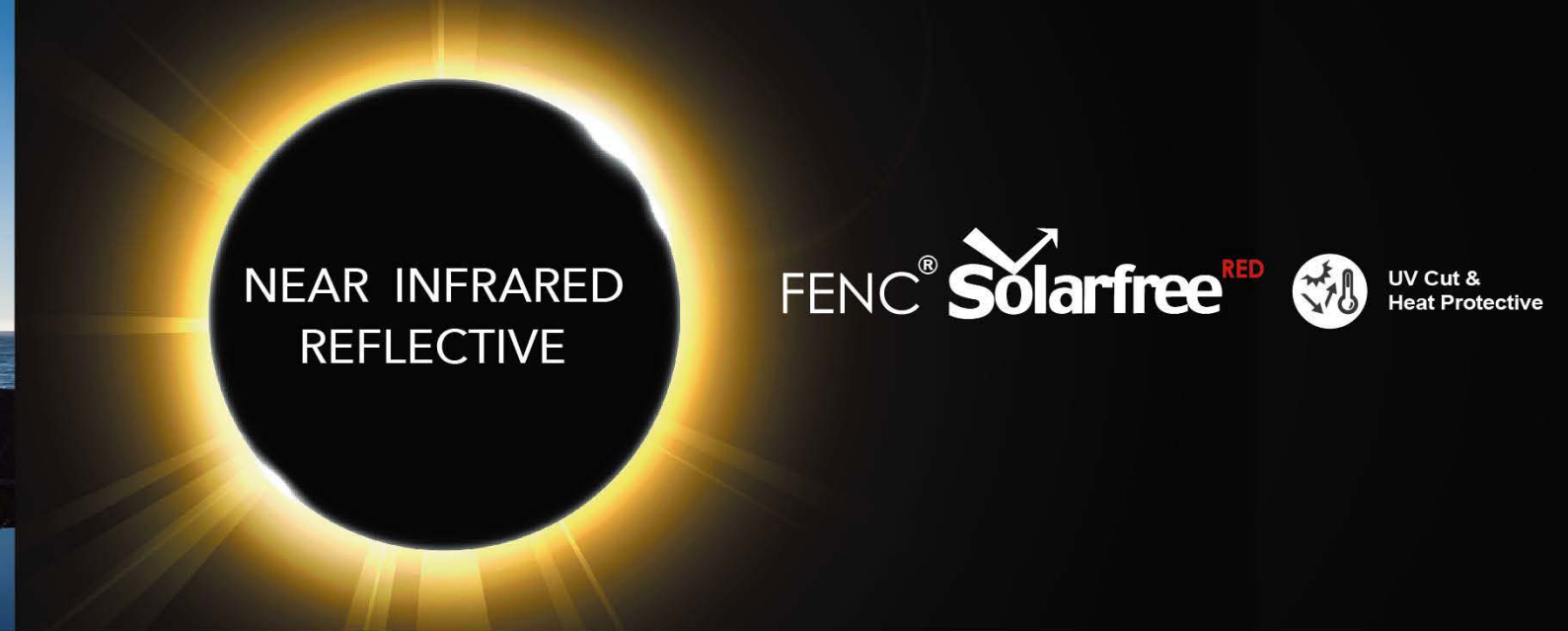


FENC® TopDry®



Moisture
Management





Advanced UV-Cut Filament 高抗紫外線纖維

產品簡介 是新一代的 UV-Cut 高抗紫外線纖維，採用專業獨特的複合紡絲技術，具有更高的反射紫外線作用，更有效隔離UVA及UVB、防止曬黑並避免紫外線傷害。

Solarfree⁺ is a new generation of UV-cut filament. Solarfree⁺ possesses ultra-violet radiation reflection effect, and prevents your skin from suntans, black spots and dermatitis.

產品特色

- 優異抗紫外線功能 Advanced UV-Cut
- 具防透視功能 Anti See-through
- 織造過程中，避免織機磨損的困擾 Less wear on knitting machine components

Skin Protection & Heating Prevention 隔熱紗

產品簡介 戶外運動時，熱來源之一是來自太陽光中的近紅外線(約佔太陽光的50%)照射，隔熱纖維能有效反射近紅外線，可有效保護皮膚及隔絕熱源，避免皮膚受到傷害。

One of the sources of heat from outdoors is near infrared (50% of sunlight). Solarfree^{RED} can reflect nIR which shields the skin from irradiative heat, so as to maintain cooler temperatures even under direct sunlight, while also protecting against accelerated dermal aging caused by both nIR and UV.

產品特色

- 反射近紅外線 Reflects nIR radiation
- 優異抗紫外線 UV-Cut
- 減緩溫度上升 Heat protection





Heat Emitting Filament 光致發熱纖維

產品簡介 新一代發熱聚酯纖維於抽絲製程中添加特殊粉體，能吸收外界與人體的熱能並放射遠紅外線與轉換熱能，使纖維達到積極性保溫及發熱效果。

A novel ceramic additive effectively emits thermal heat in the form of far infrared (fIR), affording Sunex to be anti-static while also emitting comfortable heat

產品特色

- 主動式發熱 Heat emitting
- 遠紅外線放射 Far infrared emissivity
- 抗靜電功能 Anti-static function



保健與安全性系列

Health and Safety Series



Flame Retardant Filament 阻燃纖維

產品簡介 利用添加磷化物製成之聚酯阻燃纖維，具不易起燃，遇到火苗時纖維會微縮集結成球狀，達到消火阻燃性，此外燃燒時不會產生鹵素毒氣，是安全性極高的阻燃素材；織物可通過CNS、日本及美國等檢驗標準。

By adding the special phosphorus-based compound, the long-lasting flame retardant filament Fita is difficult to be ignited and will slightly shrink and massed into conglobation without releasing any toxic halogen gas while encountering flames. Fita has passed the standards in Japan, America, and CNS in Taiwan. The flame retardant characteristics of Fita are long-lasting sealed into the polymer chain, so the function will not be influenced by ageing or washing.

產品特色

- 長效型阻燃功能 Long-lasting Flame Retardant Effect
- 安全無毒性 Safe and non-toxic

★ 織物組織及染整作業會影響阻燃效果

Flame Retardant test value related with fabrics construction, dyeing and fishing condition.

Anti-Bacterial Filament 抑菌纖維

產品簡介 抑菌纖維在紡絲時添加獨特抑菌配方，可達長效抑菌效果。此紗線在經織造、染整工程後仍有優良的染色性及極佳的抑抗菌效果。

Eagelon® utilizes eco-friendly anti-bacterial agents dispersed throughout the PET yarn during spinning that can provide durable anti-bacterial effect. Besides its good dyeability, Eagelon® can offer superior anti-bacterial effect even after dyeing and finishing process.

產品特色

- 長效抑菌 Outstanding antibacterial function
- 耐水洗性可用於後染色 High wash durability, and good dyeability
- 對皮膚無刺激性及過敏性 Skin friendly
- 通過美國EPA、歐洲BPR及日本SIAA認證 Passed the EPA, BPR, and SIAA standards



一般纖維養菌結果
Normal PET



抗菌纖維養菌結果
Antimicrobial PET



Contact Us

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PCR Polyester Waterproof Breathable Membrane

產品簡介 將長久以來焚燒或掩埋處理的保特瓶，回收做成防水透濕薄膜，可以減少破壞地球環境的衝擊。保特瓶經由收集、分類篩選、打碎、清洗、熔融、過濾及造粒等過程，生產出再生的酯粒。遠東的再生聚酯薄膜製程可依客戶需求生產，以達到最佳的產品特性。產品可應用於鞋子、醫療、成衣等領域。

TOPGREEN® Membrane is the world's first Post consumer Recycled (PCR) hydrophillic polyester water proof breathable membrane. Suitable for a variety of outdoor apparel and footwear applications.

產品特色

- 優良耐高溫/低溫性能 Superior performance under extreme cold conditions (-40°C)
- 與聚酯織物貼合使用，回收與再利用製程簡單 Fully traceable PCR material

