

THAI POLYESTER

industries, including the garment industry, interior decoration, automotive, home textile, soft toy, accessories, etc. Nowadays, polyester is one of the most used fabric types globally for the textile industry due to its advantageous characteristics such as flexibility, durability, high toughness, heat-resistance, stain-resistance, wrinkle resistance, and versatility economical price. However, global warming and pollution concerns have been the world's attention nowadays. As virgin polyester production comes from a non-re-

newable source which somehow creates pollution

virgin production is unsustainable for the global

from dyeing and solid waste, we can see that

obtains from petroleum widely used in various

and environment. As a leader of the polyester supplier in Thailand, Thai Polyester Co., Ltd. (TPC) aims to decrease environmental problems from our production and assures us to commit to environmentally friendly operations by focusing on recyclable, reusing, and reducing. What is a substitute for virgin polyester? Recycled polyester is an alternative and

sustainable option to virgin polyester since the

Polyester recycled yarn starts from collecting

plastic bottles and production waste, then

production does not depend on petroleum (non-renewable source) as a raw material. Thus, we would reduce our reliance on crude oil to continue developing on sustainable and environmentally friendly.

called PET flakes and melting flakes into pellets. The next process is melted by using high temperature and then spinning those pellets into the polyester recycled polymer. **Endproduct** Recycled Cleaned

cleaning and cutting PET bottles into small pieces



gases into the atmosphere. Referring to our recycled production, a jacket (450 grams) can save 18 bottles, while a blanket (60"x75") can save up to 26 bottles of 1.5 liters water bottle. Additionally, 5,000 grams of recycled PET bottle yarn help save up to 200 bottles of 1.5 liters water bottle.

Polyester waste recycling reduces overall carbon

dioxide emissions by about 30% compared to

environmental impact and climate change. It

also decreases the overall carbon footprint as it

does not require new petroleum in its production,

saving energy consumption and natural resources

virgin polyester, resulting in a lower

Using post-consumer and post-industrial, like PET

plastic bottles and other production wastes, has

plastic waste from landfills and the ocean, one of

the main factors in creating and releasing toxic

major benefits for decreasing the amount of

such as crude oil and natural gas. TPC is proud to be a polyester recycling company. In 2019, we established "ECO TPC" a brand-new ECO-friendly product line, with a variety of product ranges to support the increasing demand of polyester recycled yarn in local and export customers as below items; Recycled Polyester Staple Fiber (PSF) Recycled Partially Oriented Yarn (POY) Recycled Drawn Textured Yarn (DTY) Recycled Fully Drawn Yarn (FDY) Recycled Polyester Spun Yarn Recycled Twisted Yarn

DTY

(Draw Textured Yarn)

FDY (Fully Drawn Yarn)

Twisted Yarn

fabric and home textile. Polyester yarn will be transferred to our sister company, Jong Stit Co., Ltd., one of Thailand's biggest textiles and fabrics

manufacturers since 1940, to produce 100% virgin

polyester fabric and recycled polyester fabric.

As one of the leading polyester fabric recycling

jersey fabric, tricot, fleece, poly boa, flannel and

printed fabric to support local and export markets'

companies in Thailand, Jong Stit produces circular knit

fabric and warp knit fabric such as french terry fabric,

provides "One Stop Service" from yarns and fiber to

POY

(Partially Oriented Yarn)

Ring Spun

Our company group

PSF

(Polyester Staple Fiber)

Open End

requirement.

How to ensure recycled polyester in final products? TPC has environmental management system guaranteed by third-party, which are certified by OEKO-Tex, ISO 9001:2015 and Global Recycled Standard (GRS).

As a leading recycled PET yarn manufacturers, TPC

we have OEKO-Tex Standard 100 certification,

do not contain any harmful substances.

OEKO-TEX®

OEKO-TEX®

Global Recycled Standard

STANDARD 100

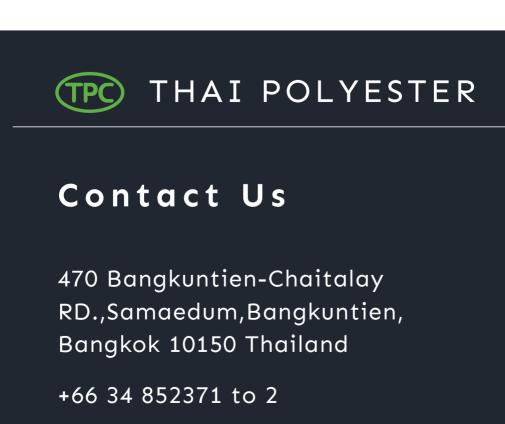
ensures that our recycled produce by providing GRS to customers to verify the recycled material and track the content of recycled materials from the beginning until final products along with responsible social, chemical restrictions and environmental principles. Furthermore,

which guarantees that our final products are safe and

intertek

CERTIFICATE

Thai Polyester Co., Ltd.



Our Product Polyester Product

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- Our Businesses

• 100% Recycled Polyester

(TPC) Thai Polyester Jong stit

Fashion Hometex

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