



POLYPLEX[®]

Sarafil RPET film

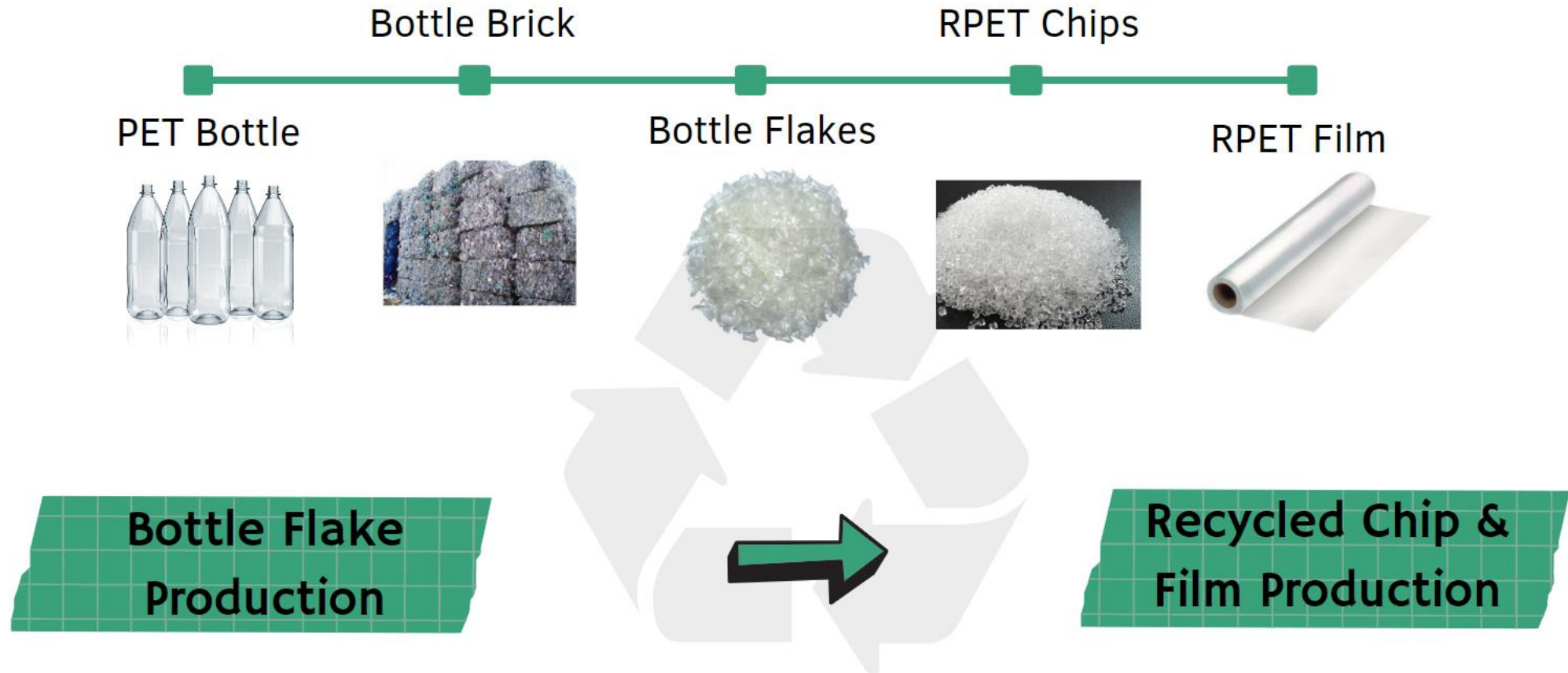
PCR-PET FILMS





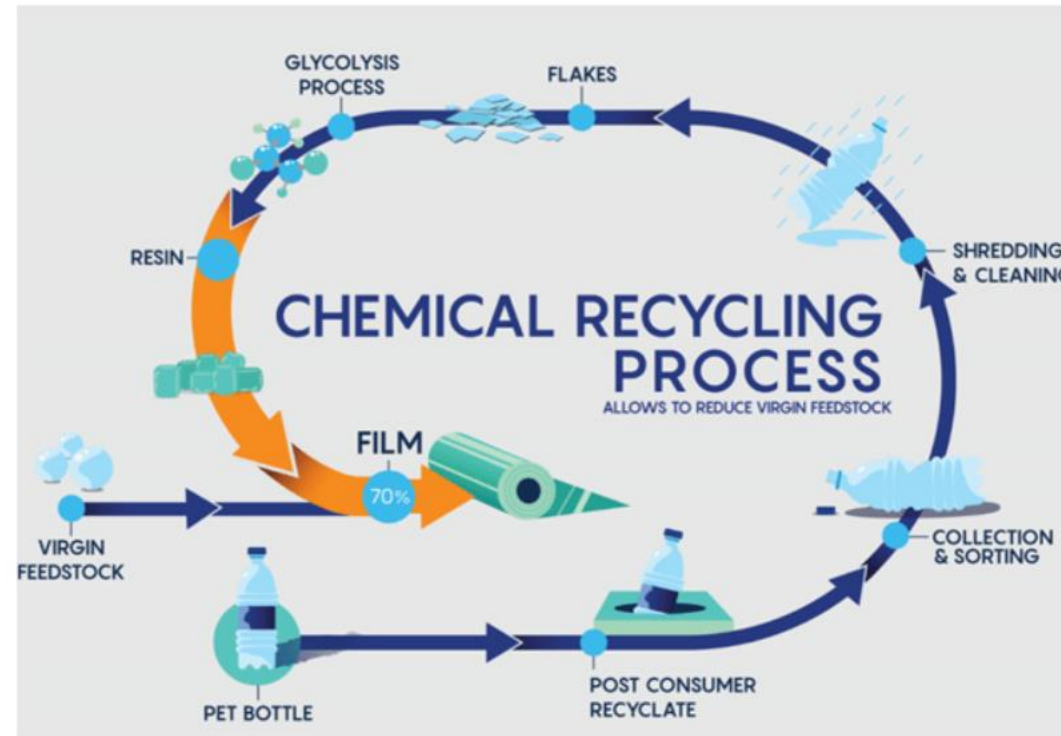
P2P-RECYCLING PROCESS

PET Flakes >> RPET Resin >> RPET film



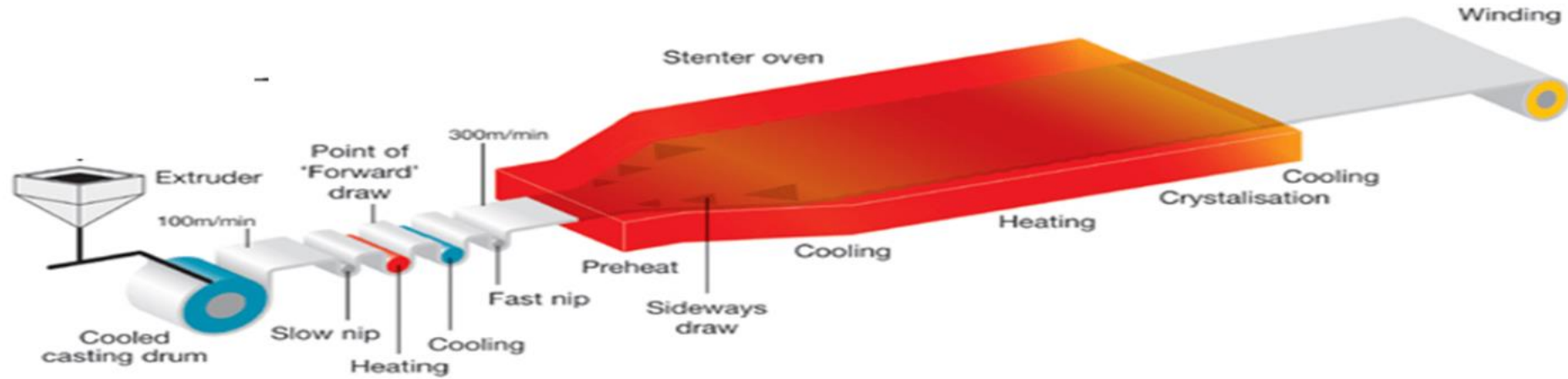


RPET Resin manufacturing process





RPET Film manufacturing process



R

RPET resin
feeding

E

Extrusion &
Casting

M

MDO
Stretching

T

TDO
Stretching

T

Take up &
Winding

S

Slitting of
RPET

P

Packing of
film



Why Choose Sarafil RPET?

FEATURES

- FDA & EFSA approved RPET manufacturing process
- Properties and performance equivalent to Virgin PET
- Inhouse RPET resin production facility using best in class manufacturing by experienced team
- Compliances for all relevant food & other regulations

Benefits

PRODUCT RANGE

- RPET with 30%, 50%, 70%, & 90% PCR content
- Thickness: 10 to 300 micron
- Transparent, Metallized & White variants
- Corona, Chemical & other pre treated surfaces
- Specialty range of RPET available

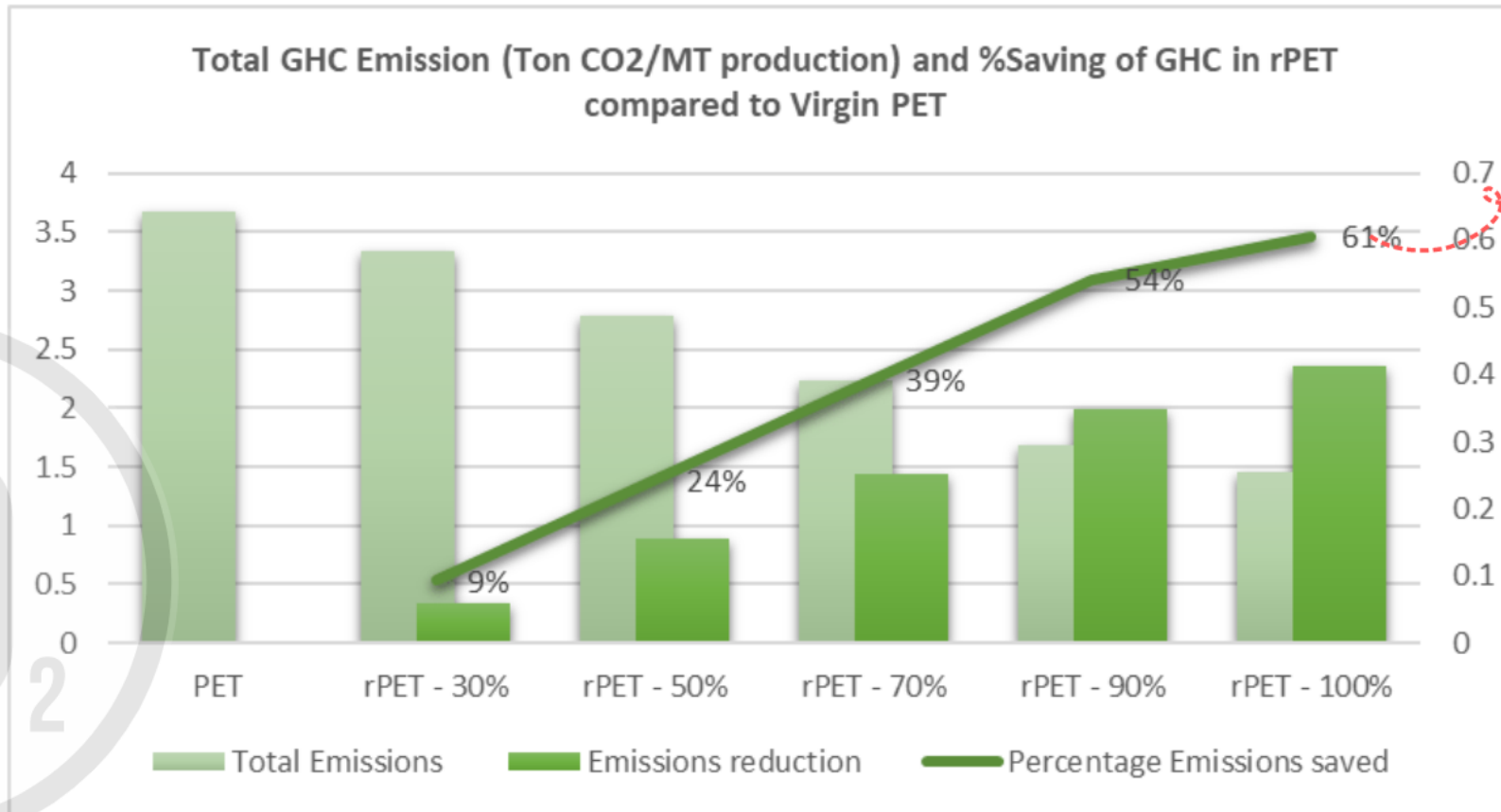
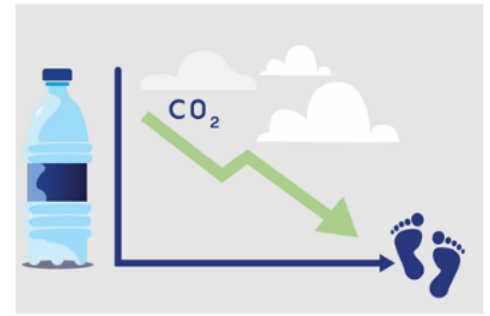
Why Choose Sarafil RPET?



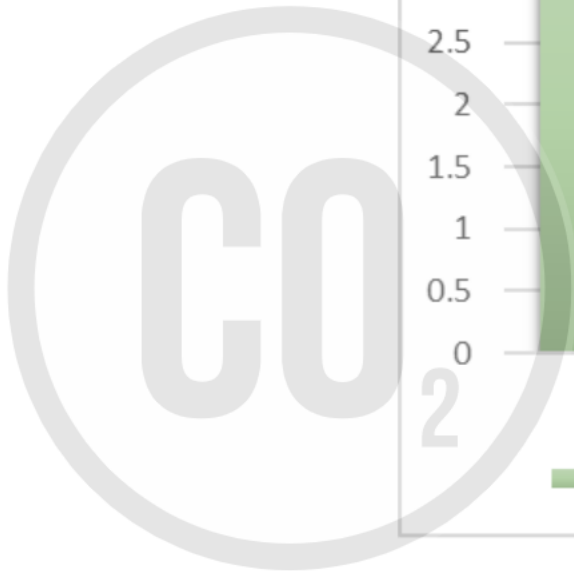
ENVIRONMENTAL

- Reducing carbon footprint
- Reducing energy consumption
- Reducing usage of fossil feedstocks
- Supporting recycling streams and improved waste collection

CO2 Emissions Comparison



100% rPET data extrapolated



CO₂ Emissions Comparision

Total GHC emission (Tonne CO₂/MT Film Production) and saving compared to Virgin PET film

	Virgin PET	rPET - 90%	rPET - 70%	rPET - 50%	rPET - 30%
Total Emissions	3.68	1.685	2.235	2.785	3.336
Emissions avoided		2.105	1.555	1.005	0.454
Percentage Emissions saved		54%	39%	24%	9%

*All data collected from Polyplex Thailand plant

Compliances : RPET



ISO 14021:2016

US FDA COMPLIANT
EC10/2011 COMPLIANT
%PCR CONTENT CERTIFIED
REACH, ROHS COMPLIANT



Certifications

RPET 90%



VERIFIED
RECYCLED CONTENT

Intertek does hereby certify that an independent assessment has been conducted on behalf of

POLYPLEX USA, LLC.

Certificate Number: RC-786161-01a Certificate issued: 17 February 2020
Initial Verification Date: 10 February 2020 Certificate valid until: 9 February 2023

Applicant Address: 3001 Mallard Fox Drive NW
 Decatur, Alabama, 35601, USA

Product Category: Packaging: Polymers, Polyester (PET) Film

Product Details: Sarafil® (90%) RPET film

Conformance Criteria: ISO 14021: 2016 Calculations for Recycled Content; Conforms to 90% post-consumer recycled content

Issuing Office Name Intertek Testing Services NA, Inc.
& Address: 4700 Broadmoor Ave SE, Suite 200
 Kentwood, MI 49512 USA
 Ph: +1-616-656-7401

A handwritten signature in black ink, appearing to read 'Brian Kneibel'.

Brian Kneibel
Certification Manager
17 February 2020

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Certificate are relevant only to the sample tested/inspected. This Certificate by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Intertek Testing Services NA, Inc.

SFT-Recycled Content-CP-19F

ISSC PLUS certification




ISSC PLUS Certificate

Certificate Number: ISCC-PLUS-Cert-MY231-2023002

TRANS CERTIFICATION & INSPECTION SDN BHD
B30, LEVEL 1, JALAN IM 2/5, BANDAR INDERA MAHKOTA, 25200 KUANTAN,
PAHANG - MALAYSIA

certifies that

POLYPLEX (THAILAND) PUBLIC CO., LTD.
Slam Easlem Industrial Park, 50/24 Moo 8, Tambol Mabyangom,
Amphur Plaakdaeng, Rayong 21140 - THAILAND

complies with the requirements of the certification system
ISSC PLUS
(International Sustainability and Carbon Certification)

Place of the audit
(Same as above)

This certificate is valid from 17.03.2023 to 16.03.2024

The site of the system user is certified as:
Polymerization Plant

The scope of the certificate includes the following chain of custody options:
(Not applicable for paper traders)

Mass Balance

Kuantan (17.03.2023)
Place and date of issue


 Stamp, signature of issuing party



The issuing Certification Body is responsible for the accuracy of this document.
Version / Date: 1 (no adjustments) / 17.03.2023

This certificate is granted subject to the terms and conditions as stated in the Certification Agreement.

Version/Date: 2.0/01.03.2022

TRANS CERTIFICATION & INSPECTION SDN BHD,
NO: 1227088-1)
850, Tingkat 1, Jalan IM 2/5, Bandar Indera Mahkota,
25200 Kuantan, Pahang, MALAYSIA
Tel: 609-5733329

E: info@transcert.com.my | W: www.transcert.com.my

Sustainable materials handled by the certified site

(This annex is only applicable for material handled under the scopes: farm/plantation, point of origin, central office (farm/plantation or point of origin), first gathering point, processing unit (any type) but not for material that is only traded and/or stored)

This annex is only valid in connection with the certificate:
ISCC-PLUS-Cert-MY231-2023002 issued on 17.03.2023

Input material	Output material	Add-ons (voluntary) ¹⁾	ISSC waste process applied ²⁾	SAI FSA ³⁾	FEFAC ⁴⁾
Mixed plastic waste	Circular PET Polyethylene terephthalate (recycling code 1)	N.A.	Yes	N.A.	N.A.
Circular PET Polyethylene terephthalate (recycling code 1)	Circular Films (PET) Polyethylene terephthalate (recycling code 1)	N.A.	Yes	N.A.	N.A.

¹⁾ ISCC PLUS add-ons (voluntary application, see www.iscc-system.org for further information):

- 202-03: SAI Gold
- 205-01: GHG emission requirements
- 205-02: Consumables
- 205-03: Non GMO for food and feed
- 205-04: Non GMO for technical markets

²⁾ Yes: The raw material meets the ISCC definition of waste or residue, i.e. it was not intentionally produced and not intentionally modified, or contaminated, or discarded, to meet the definition of waste or residue
No: The raw material complies with the ISCC Principles 1 – 6 for the cultivation of sustainable biomass

³⁾ Farm Sustainability Assessment (FSA) was developed by the Sustainable Agriculture Initiative (SAI)

SAI Silver Compliance: ISCC Compliant material can be claimed as "Equivalent to FSA 2.1 Silver"
SAI Gold Compliance: ISCC Compliant material incl. add-on SAI Gold can be claimed as "Equivalent to FSA 2.1 Gold"

⁴⁾ FEFAC: European Feed Manufacturers' Federation. ISCC compliant materials can be claimed as "in line with FEFAC soy sourcing guidelines 2019"

The issuing Certification Body is responsible for the accuracy of this document.
Version / Date: 1 (no adjustments) / 17.03.2023

This certificate is granted subject to the terms and conditions as stated in the Certification Agreement.

Version/Date: 2.0/01.03.2022

TRANS CERTIFICATION & INSPECTION SDN BHD,
NO: 1227088-1)
850, Tingkat 1, Jalan IM 2/5, Bandar Indera Mahkota,
25200 Kuantan, Pahang, MALAYSIA
Tel: 609-5733329

E: info@transcert.com.my | W: www.transcert.com.my



POLYPLEX[®]

Your Innovating Partner

Thank you!

