

CATALOGUE

DUYTAN RECYCLING







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The recycling factory

To reduce plastics waste pollution to the environment in Vietnam, we established a recycling factory in the late 2019-2020 with total investment capital is 60 million USD. The factory has an area of 110,000 m² located in Lot D2- Duc Hoa Ha Plastics Industrial Cluster, Duc Hoa Ha Commue, Duc Hoa District, Long An Province, Vietnam.

DUYTAN Recycling Factory creates more than 500 jobs for local and nearby provinces. Recycling capacity is more than 100,000 tons/year when completed. Our goals and vision to become the leading plastic recycling company in Southeast Asia and worldclass in terms of quality and capacity.

DUYTAN Recycling Project has approached the State-of-the-art recycling technology in the world today.

With our European Technology, PCR bottles are collected, treated and recycled to become clean, food-safe and hygienic plastic materials that complies to international standards and being applied to food packaging industry.



2019
Location studying
& Construction



2020
Equipment Installation
& Trial production



2021
Official running
04.2021



ZERO WASTE FACTORY

No Water Waste

No Air Waste

No Industrial Waste



2020

Capacity: 20,000 ton/year



2024

Capacity: 60,000 ton/year



2026

Capacity: 100,000 ton/year

Our collection activities

We set up collection centers connecting with more than 100 satellite collection stations throughout VietNam.

- **03**
Collection station
- **100⁺**
Suppliers
- **2900⁺**
Collection points





01

Post-Consumed plastic waste 100% collected in Vietnam



02

National wide waste collection system



03

Auto-sorting lable removal



04

Collected plastic waste are pressed into bales for easy transportation and storage

05

Post consumed plastic waste are grinded into flake & conveyed through washing line



rPET (food grade packaging)

To bring recycled plastic solutions to complete circular economy, DUYTAN Recycling is fully equipped with European technology to inspire and deliver outstanding rPET quality.

Recycled Polyethylene Terephthalate (rPET) is produced through strictly quality control process. DUYTAN Recycling is confident to bring rPET resin for food contact packaging to build a more regenerative economy.

Recycling Process





Foods contact grades
FDA, EN 10/2011, QCVN 12-1:2001/BYT
Contain no substance on the REACH 211 SVHC list

rPET iSS01084G

CSD Bottles

Property	Test method	Value	Unit
Intrinsic Viscosity (IV)	ASTM D1238	0.84 ± 0.03	dl/g

rPET iSS01G

Water Bottles
House Care
Personal Care

Property	Test method	Value	Unit
Intrinsic Viscosity (IV)	ASTM D1238	0.8 ± 0.02	dl/g

rPET WSS01G

Water Bottles
House Care
Personal Care

Property	Test method	Value	Unit
Intrinsic Viscosity (IV)	ASTM D1238	0.78 ± 0.02	dl/g

rPET WSS03G

Water Bottles
House Care
Personal Care

Property	Test method	Value	Unit
Intrinsic Viscosity (IV)	ASTM D1238	0.73 ± 0.02	dl/g

PET Flakes

Hot-washed

Thermoforming
Sheet

Grade	Test method	Value	Unit
FPET201	ASTM D1238	0.68± 0.03	dl/g
FPET106		0.65± 0.05	

rPET (For Fiber)

Complete circular economy, DUYTAN Recycling is fully equipped with European technology to inspire and deliver outstanding rPET quality

Recycled Polyethylene Terephthalate (rPET) is produced through strictly quality control process. DUYTAN Recycling Company is confident to bring rPET resin for fiber/filaments to build a more regenerative economy.

Recycling Process

1 Collection and Sorting of Materials



2 rPET resin



THE RECYCLING PROCESS OF POLYESTER FABRIC



4 Production of recycled polyester fabric



3 Polyester Fiber/filaments Production





rPET Super-bright

FIBER/FILAMENTS

rPET chip are suitable for making filament yarn and staple fibers
- Characteristics: Uniform particle size, controlled impurity, and tolerant viscosity

Grade	Test method	Value	Unit
WSS04SB	ASTM D1238	0.65 ± 0.03	dl/g



rPET Semi-dull

FIBER/FILAMENTS

rPET chip are suitable for making filament yarn and staple fibers
- Characteristics: Uniform particle size, controlled impurity, and tolerant viscosity

Grade	Test method	Value	Unit
WSS03SD	ASTM D1238	0.7 ± 0.03	dl/g
WSS04SD		0.65 ± 0.03	



rHDPE

Recycled High Density Polyethylene (rHDPE) is produced through strictly quality control process. Post consumed bottles are sorted by color, flaked, washed, pelletized to produce high quality recycled plastic resin.

Recycling Process





rHDPE BLOW - MOLDING

House Care
Personal Care

- Recommended use: bottles, sheet.
- Recommended technology: Extrusion and Extrusion blow molding.

Grade	Color	MFI	Test Method
• rHDA03N01 • rHDB03N02 • rHDB03N01 • rHDB03W01 • rHDB03Y01 • rHDB03G01 • rHDB03Gy01	Natural (Personal Care) Natural Natural White Yellow Green Grey	0.3 ± 0.05	ASTM D1238 (190°C, 2.16kg)



rHDPE INJECTION

Handle
Pallet
Crate

- Recommended application: injection molding.

Grade	Color	MFI	Test Method
• rHDI3W01 • rHDI3G01 • rHDI3B01 • rHDI3Y01 • rHDI3Gy01 • rHDI3R01	White Green Black Yellow Gray Red	3 ± 2	ASTM D1238 (190°C, 2.16kg)
• rHDI4L01	Blue	4 ± 2	

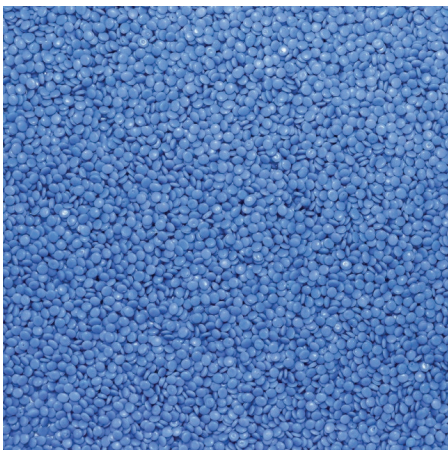
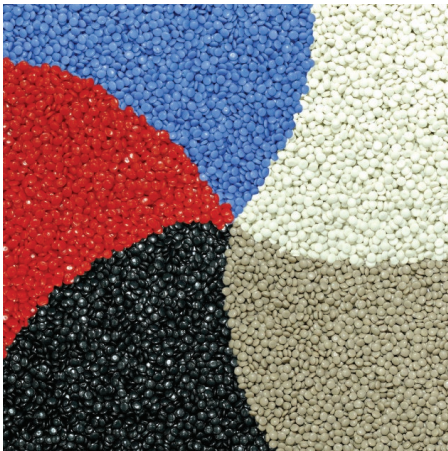


rPP

Recycled PolyPropylene (rPP) is produced through strictly quality control process. Post consumed household products are sorted by color, flaked, washed, pelletized to produce high quality recycled plastic resin.

Recycling Process



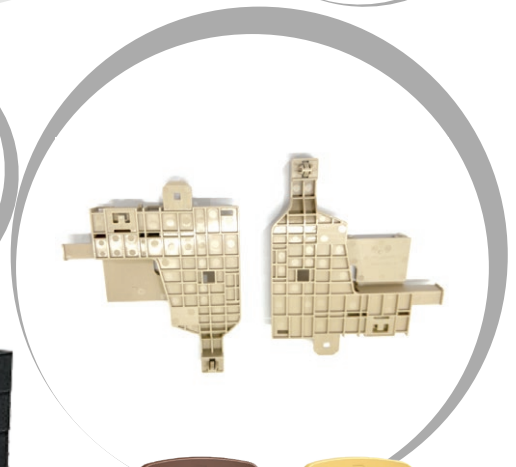
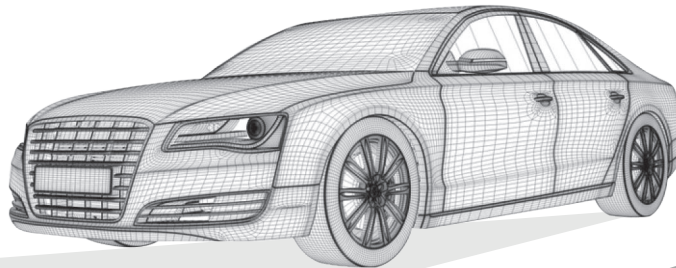


rPP

INJECTION

- Application: General Injection molding.
- Processing: Injection molding.

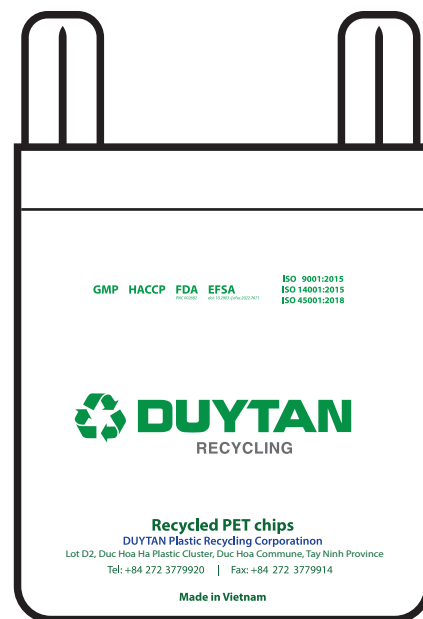
Grade	Color	MFI	Test Method
• rPP15B01 • rPP15Gy02	Black Gray	15 ± 10	
• rPP20L01 • rPP20R01 • rPP20B01 • rPP20Y01 • rPP20W01 • rPP20Gr01	Blue Red Black Yellow White Gray	20 ± 10	ASTM D1238 (190°C, 2.16kg)
• rPP25W01 • rPP25Gy01 • rPP25Be01 • rPP25Br01	White Gray Beige Brown	25 ± 10	



Packaging

Our recycled resins are packed with international export packaging standards & palletized.

Fast delivery to local & export customers.



rPET packaging

1100kgs/ jumbo bags
22 Tons/ 20'fcl cont





rHDPE packaging

25kgs/ bag
11 Tons/ 20'fcl cont
24.75 tons/ 40'fcl cont



rPP packaging

25kgs/ bag
11 Tons/ 20'fcl cont
24.75 tons/ 40'fcl cont



Quality management

Quality is one of the most concerns in our operations. DUYTAN Recycling Company is run by experienced team with good knowledge in recycled quality control. We are confident to bring the best recycled pallets to customers with modern quality control equipments our lad.

- 01 The most modern European recycling technology
- 02 Certifications issued by prestigious global units
- 03 Strict quality control process with modern testing machines
- 04 Expert team in operating laboratory facilities



Spectrophotometer Moisture Analyzertable Melt Flow Indexer



Universal Testing Machine Viscometer AA, Benzene tester



Color assessment table Microscope Flake heating oven



VICAT/ HDT Tester Pendulum Impact Tester ESCR Incubator



Certifications



ISO 9001 | ISO 14001 | ISO 45001 | ISO 50001



REACH
COMPLIANCE

CERTIFIED
HACCP CODEX



HACCP
Hazard Analysis & Critical Control Points

VERIFIED
GMP



GMP
Good Manufacturing Practice

Sedex² Member

SEDEX
Proud to be a Sedex Member



FDA
Food and Drug Administration

EFSA

EFSA
European Food Safety Authority

FSSC 22000

FSSC 22000
Food Safety System Certification 22000

RecyClass

RecyClass
Recyclability, traceability



OBP
Ocean Bound Plastics



GRS
Global Recycling Standard



APR
APR Post-Consumer Recycled Content

CATALOGUE



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