

# CATALOGUE

**DUYTAN** RECYCLING









# TABLE OF CONTENTS

## INTRODUCTION

About us	04
Our collection activities	07

## rPET

Recycling process	08
Products	11

## rHDPE

Recycling process	12
Products	13

## rPP

Recycling process	14
Products	15

PACKAGING	16
-----------	----

QUALITY CONTROL	18
CERTIFICATIONS	19

# 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 65,000 m<sup>2</sup> 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<sup>+</sup>**  
Suppliers
- **2900<sup>+</sup>**  
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)

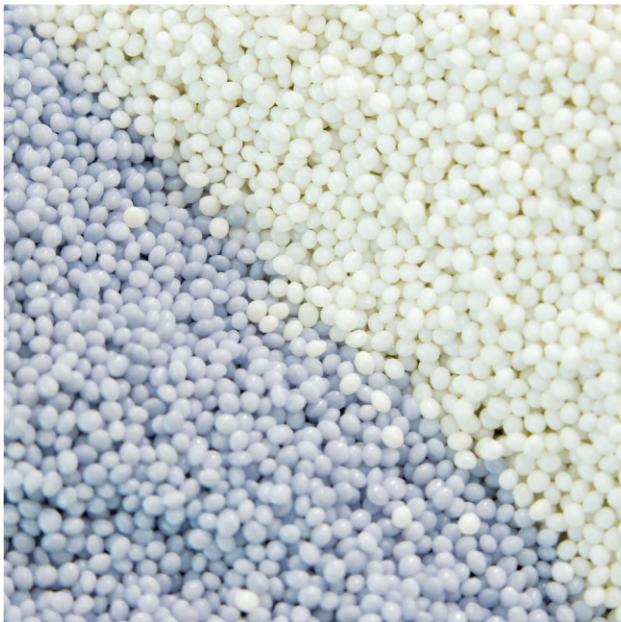
To bring recycled plastic solutions to complete circular economy, DUYTAN Recycling is fully equipped with European technology to inspire and deliver outstanding rPET quality.

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







## 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 iSS01L (light-blue)

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

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



# rPET (for textile industry)

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







## rPET Super-bright

FIBER/FILAMENTS

rPET chip are suitable for making filament yarn and staple fibers

- Characteristics: Uniform particle size, controlled impurty, and tolerant viscosity

Grade	Test method	Value	Unit
<b>WSS04SB</b>	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 impurty, and tolerant viscosity

Grade	Test method	Value	Unit
<b>WSS03SD</b>	ASTM D1238	0.67 ± 0.03	dl/g
<b>WSS04SD</b>	ASTM D1238	0.65 ± 0.03	dl/g





# 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
<ul style="list-style-type: none"> <li>• rHDA03N01</li> <li>• rHDB03N02</li> <li>• rHDB03N01</li> <li>• rHDB03W01</li> <li>• rHDB03Y01</li> <li>• rHDB03G01</li> <li>• rHDB03Gr01</li> </ul>	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
<ul style="list-style-type: none"> <li>• rHDI3W01</li> <li>• rHDI3G01</li> <li>• rHDI3B01</li> <li>• rHDI3Y01</li> <li>• rHDI3Gy01</li> <li>• rHDI3R01</li> </ul>	White Green Black Yellow Gray Red	3 ± 2	ASTM D1238 (190°C, 2.16kg)
<ul style="list-style-type: none"> <li>• rHDI4L01</li> </ul>	Blue	4 ± 2	

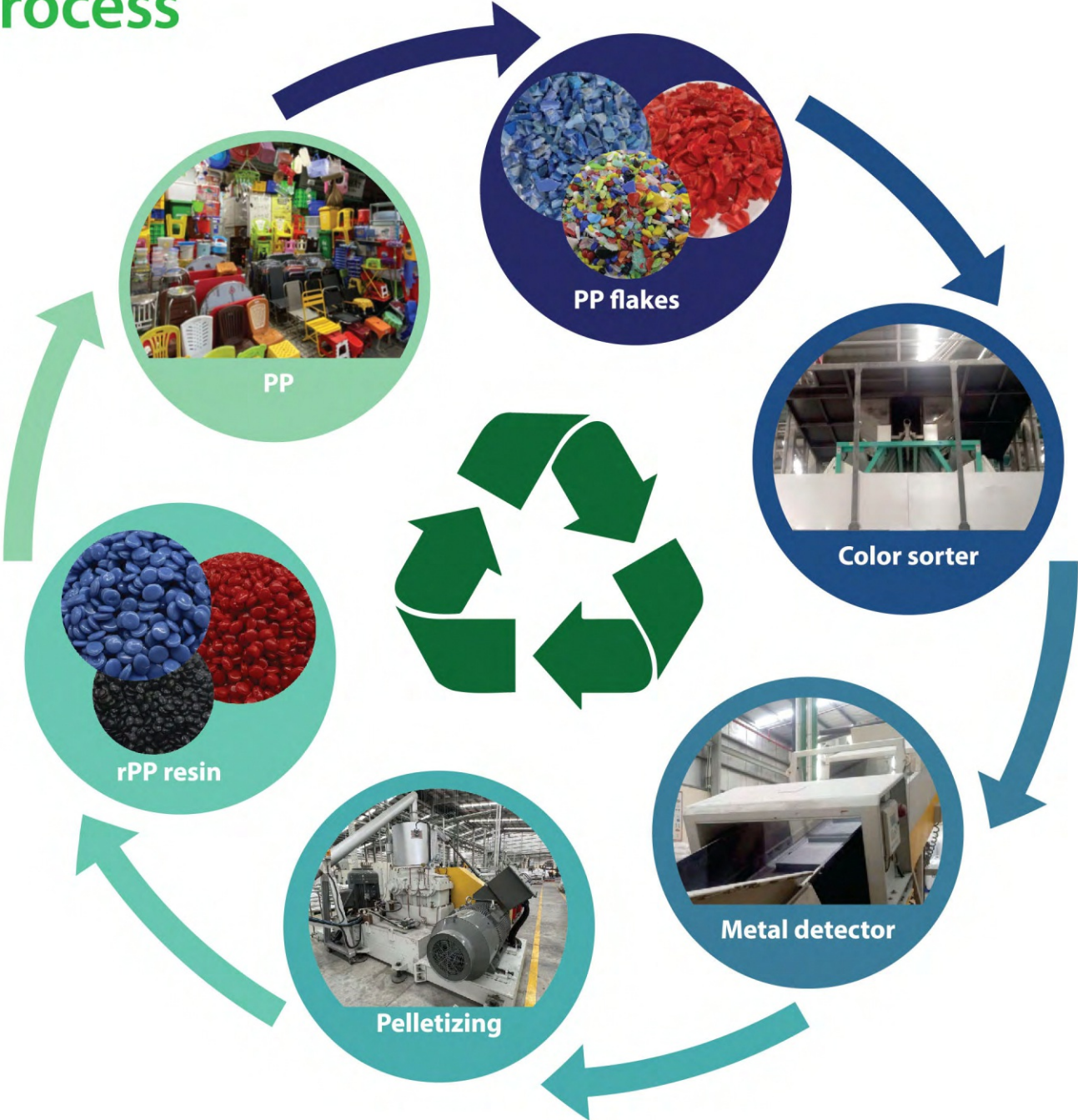




# rPP

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





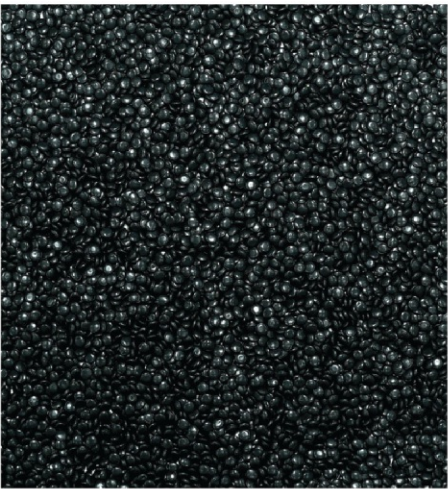
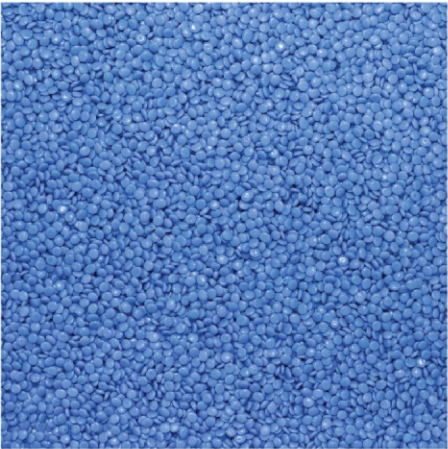
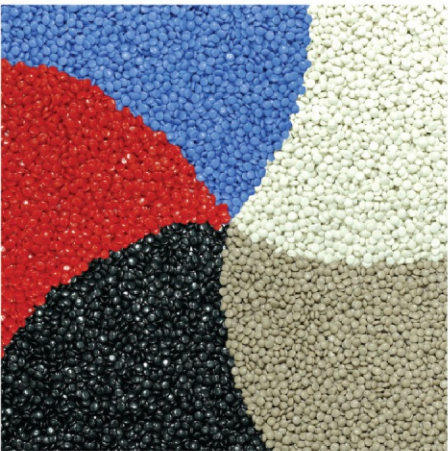
rPP

INJECTION

- Application: General Injection molding.

- Processing: Injection molding.

Grade	Color	MFI	Test Method
<ul style="list-style-type: none"> <li>rPP15B01</li> <li>rPP15Gy02</li> </ul>	Black Gray	15 ± 10	
<ul style="list-style-type: none"> <li>rPP20L01</li> <li>rPP20R01</li> <li>rPP20B01</li> <li>rPP20Y01</li> <li>rPP20W01</li> <li>rPP20Gr01</li> </ul>	Blue Red Black Yellow White Gray	20 ± 10	ASTM D1238 (190°C, 2.16kg)
<ul style="list-style-type: none"> <li>rPP25W01</li> <li>rPP25Gy01</li> <li>rPP25Be01</li> <li>rPP25Br01</li> </ul>	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 | ISO45001 | ISO 50001



REACH  
COMPLIANCE

CERTIFIED  
HACCP CODEX



HACCP  
Hazard Analysis & Critical Control Points

VERIFIED  
GMP



GMP  
Good Manufacturing Practice

Sedex Member

SEDEX  
Proud to be a Sadex Member



FDA  
Food and Drug Administration

EFSA

EFSA  
European Food Safety Authority



FSSC 22000  
Food Safety System Certification 22000



SA 8000  
System Certification



OBP  
Ocean Bound Plastics



# CATALOGUE

---



Lot D2., Duc Hoa Ha Plastics Industrial Clusters, Duc Hoa Ha Commune,  
Duc Hoa District, Long An Province, Vietnam.

Tel: +84 272 3779 920

Fax: +84 272 3779 914

Email: [info@duytanrecycling.com](mailto:info@duytanrecycling.com)

Website: [www.duytanrecycling.com](http://www.duytanrecycling.com)

