

CATALOGUE

DUYTAN PLASTIC RECYCLING





TABLE OF CONTENTS

INTRODUCTION

About us	04
Our collection activities	06

rPET

Recycling process	08
Products	09

rHDPE

Recycling process	10
Products	11

PACKAGING	12
-----------	----

QUALITY CONTROL	14
CERTIFICATIONS	15

The recycling factory

To minimize the impact of plastic waste to the environment in Vietnam, we build up recycling factory in the late 2019 - 2020 with total invesment cost is 60 million USD. The factory has an area of 65,000m2, located in Lot D2-Duc Hoa Ha Plastic Industrial Complex, Duc Hoa Ha Commune, Duc Hoa District, Long An Province, Vietnam

DuyTan Plastic Recycling Factory
Creates jobs for more than 300 people in the locality and neighbouring provinces. Recycling capacity is more than 100,000 tons/ year when completed. Persuing to goals and vision to become the leading plastic recycling company in Southeast Asia and world-class in terms of quality and capacity, Duy Tan Plastic Recycling Project has approached the State-of-Art recycling technology in the world today.

To bring the recycle plastic solution to packaging customers
Post consumed plastic bottles become a threat to our environment nowadays. With our European technology, PCR bottles are treated & recycled to become clean, food-safe and hygienic plastic materials that comply with current standards. of the world and applied to food packaging production.



ZERO
WASTE
FACTORY

No Water Waste

No Air Waste

No Industrial Waste

Realizing the ambitious vision of sustainable economy for plastics. DuyTan Plastic Recycling has become the first factory invested globally green finance by HSBC Bank, Standard Chartered Bank, Vietcombank. Ability to meet international fund requirements in the future.



 **2019**
Location studying
& Construction

 **2020**
Equipment Installation
& Trial production

 **2021**
Official running
04.2021

2020
Output: 20,000 ton/year

2024
Output: 60,000 ton/year

2026
Output: 100,000 ton/year

Our collection activities

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



01

Post-Consumed bottles
100% collected in
Vietnam



02

Set up standards for
collected bottles



03

Collected bottles are
pressed into bales for
easy transportation and
storage



04

Auto sorting to
separate color &
out-of-spec bottles



05

Post consumed bottles
are grinded into flake &
conveyed through washing
line

rPET

To bring recycled plastic solutions to complete circular economy, Duy Tan Plastic 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 Plastic Company is confident to bring rPET resin for food contact packaging to build a more regenerative economy.

Recycling Process



rPET WSS01G/iSS01G

Recycled Polyethylene Terephthalate

Water Bottles
House Care
Personal Care

Good Processability
Low acetaldehyde content
Uses: Bottles/Jars
Application: Injection and injection stretch blow molding.

Property	Test method	Value	Unit
Physical			
Intrinsic Viscosity (IV)	ASTM D1238	WSS01G 0.78 ± 0.02 iSS01G 0.8 ± 0.02	dl/g
Bulk density	Internal method	≥ 800	kg/m3
Moisture content	Moisture analyzer	≤ 0.2%	%
Pellet shape	Internal method	oval	
Pellet weight	Internal method	1.5 ± 0.5	g/100pellets
L value		71 ± 3	
b value		-4 ± 2	

Food contact approval
US FDA 21 CFR Part 177.1630, EN 10/2011, QCVN 12-1:2011 BYT
Contains no substance on the REACH 211 SVHC list

rPET WSS03G

Recycled Polyethylene Terephthalate

Filament
Injection
Sheet/Film

Good Processability
Low acetaldehyde content
Uses: Fiber, Thermoforming
Application: Injection, injection stretch blow molding, filament

Property	Test method	Value	Unit
Physical			
Intrinsic Viscosity (IV)	ASTM D1238	0.7 ± 0.02	dl/g
Bulk density	Internal method	≥ 800	kg/m3
Moisture content	Moisture analyzer	≤ 0.2%	%
Pellet shape	Internal method	oval	
Pellet weight	Internal method	1.5 ± 0.5	g/100pellets
L value		69 ± 3	
b value		-6 ± 4	

Contains no substance on the REACH 211 SVHC list

rPET iSS01084G

Recycled Polyethylene Terephthalate

CSD Bottles

Good Processability
Low acetaldehyde content
Uses: CSD Bottles
Application: Injection and injection stretch blow moulding.

Property	Test method	Value	Unit
Physical			
Intrinsic Viscosity (IV)	ASTM D1238	0.84 ± 0.03	dl/g
Bulk density	Internal method	≥ 800	kg/m3
Moisture content	Moisture analyzer	≤ 0.2%	%
Pellet shape	Internal method	oval	
Pellet weight	Internal method	1.5 ± 0.5	g/100pellets
L value		71 ± 3	
b value		-4 ± 2	

Food contact approval
FDA, EN 10/2011, QCVN 12-1:2001/BYT
Contains no substance on the REACH 211 SVHC list



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 MBF01

Recycled High Density Polyethylene

House Care
Personal Care

MBF01 grade has excellent stiffness, heat distortion resistance and good environmental stress crack resistance.
Use: Bottles.
Application: Extrusion & Extrusion blow molding.

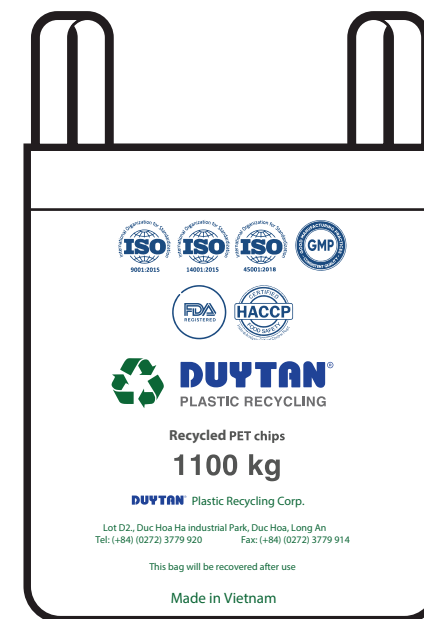
Property	Test method	Value	Unit
Physical			
Melt Index	ASTM D1238 (190 OC, 2.16kg)	0.3 ± 0.05	g/10min
Density	ASTM D792	0.94 ± 0.01	g/cm3
Tensile Strength (at yield)	ASTM D638	23 ± 2	MPa
Flexural Strength	ASTM D790	270 ± 50	Kg/cm2
Flexural Modulus	ASTM D790	800 ± 100	MPa
Izod Impact	ASTM D256	>490 nonbreak	J/m
%PP	ASTM D5576	Max 5%	%
Filtration (Screen pack)		120 x 3	Mesh
Pellet size		38 ± 5	Pellets/g
Other (visual, odor)			
Color	X-Rite Ci60	Natural L= 64 ± 3 a= 0 ± 2 b= 5.5 ± 2	
Durometer Hardness /Type D (Shore D)	ASTM D2240	55 ± 1	



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
12 Tons/ 20'fcl cont
24 tons/ 40'fcl cont



Quality management

Quality is one of the most concerns in our operations. Duy Tan Plastic Recycling Company is run by experienced team with good knowledge about recycling. We are confident to bring the best recycled pellets to customers with modern quality control equipments in our lab.

- 01 The most modern European recycling technology in the world
- 02 Certifications issued by prestigious global units
- 03 Strict quality control process with modern testing machines
- 04 Top quality products in Asia and the World



Certifications



EFSA
European Food Safety Authority



FDA
Food and Drug Administration



GMP
Good manufacturing practice



GRS
Global Recycling Standard



Certified
Recycled Content



FSSC 22000
Food Safety System Certification 22000



SGS
System certification SA 8000



OBP
Ocean Bound Plastics

CATALOGUE

DUYTAN
PLASTIC RECYCLING

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

Website: www.duytanrecycling.com

