

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 65,000 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.



ZERO WASTE FACTORY

- No Water Waste
- No Air Waste
- No Industrial Waste



2019
Location studying & Construction

2020
Equipment Installation & Trial production

2021
Official running 04.2021

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.



01
Post-Consumed plastic waste 100% collected in Vietnam



02
National wide waste collection system



03
Auto-sorting label removal

04
Collected plastic waste are compressed into bales for easy transportation and storage



05
Post consumed plastic waste are grinded into flakes & 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

1 Collection and Sorting of Materials



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	0.67 ± 0.03	dl/g
WSS04SD	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.

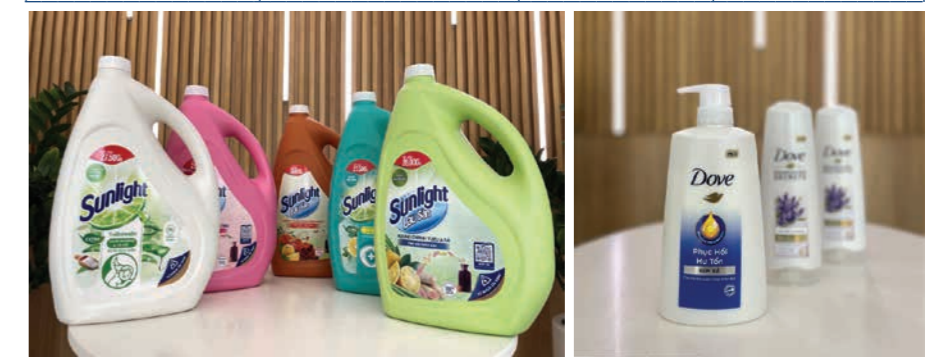
Recycling Process



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"> • rHDA03N01 • rHDB03N02 • rHDB03N01 • rHDB03W01 • rHDB03Y01 • rHDB03G01 • rHDB03Gr01 	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.

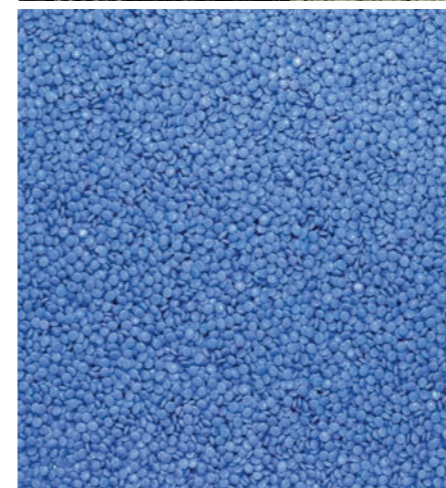
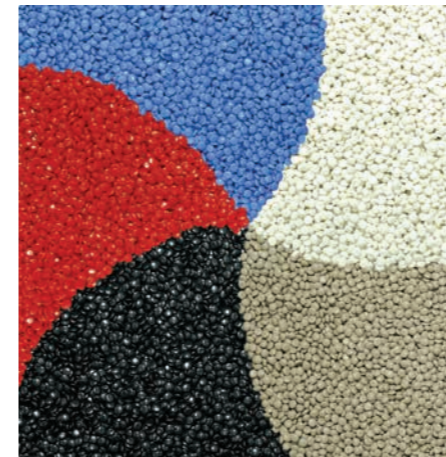
Grade	Color	MFI	Test Method
<ul style="list-style-type: none"> • rHDI3W01 • rHDI3G01 • rHDI3B01 • rHDI3Y01 • rHDI3Gy01 • rHDI3R01 	White Green Black Yellow Gray Red	3 ± 2	ASTM D1238 (190°C, 2.16kg)
<ul style="list-style-type: none"> • rHDI4L01 	Blue	4 ± 2	



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

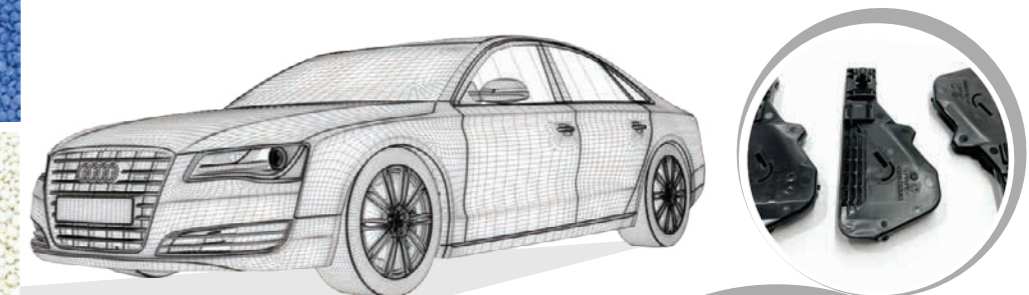


rPP

INJECTION

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

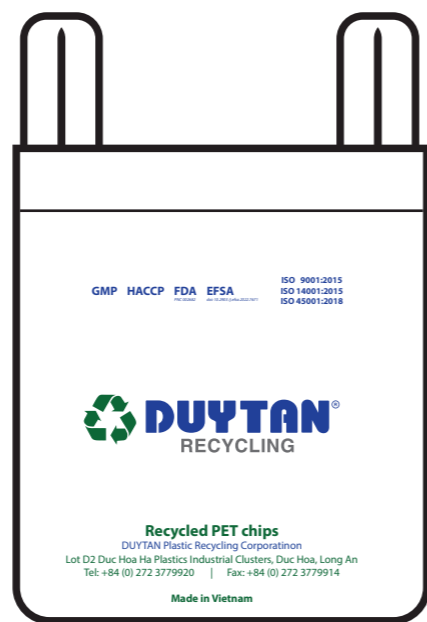
Grade	Color	MFI	Test Method
<ul style="list-style-type: none"> • rPP15B01 • rPP15Gy02 	Black Gray	15 ± 10	ASTM D1238 (190°C, 2.16kg)
<ul style="list-style-type: none"> • rPP20L01 • rPP20R01 • rPP20B01 • rPP20Y01 • rPP20W01 • rPP20Gr01 	Blue Red Black Yellow White Gray	20 ± 10	
<ul style="list-style-type: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




Certifications

 <p>ISO 9001 ISO 14001 ISO45001 ISO 50001</p>		 <p>REACH COMPLIANCE</p>
 <p>HACCP Hazard Analysis & Critical Control Points</p>	 <p>GMP Good Manufacturing Practice</p>	 <p>ISO 50001 Energy Management</p>
 <p>FDA Food and Drug Administration</p>	 <p>EFSA European Food Safety Authority</p>	 <p>FSSC 22000 Food Safety System Certification 22000</p>
 <p>SA 8000 System Certification</p>	 <p>HALAL International Halal Certification</p>	 <p>GRS Global Recycling Standard</p>
 <p>OBP Ocean Bound Plastics</p>	 <p>SONCAP Standards Organisation of Nigeria</p>	 <p>SEDEX Proud to be a Sedex Member</p>

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