

# PET LOOP

**Powering a sustainable future,  
through innovative bottle recycling**

# From WASTE to VALUE

## *A Reverse Journey*

With the aim to recycle 100% bottle, we utilise ground breaking technologies to manufacture high quality rPET, rPP and rPE products that meet standards comparable to those of virgin products. Our rPET chips have received approval from FSSAI, FDA and EFSA for their suitability in producing materials intended for contact with food. Each of our rPET products is accompanied by EPR certification, ensuring traceability to its source and providing a transparent overview of the supply chain.



01

## Largest Capacity at One Location

The plant has a capacity of recycling **1.5 million bottles per day** operations, which implies high efficiency and scalability.

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- *rPET Flakes 108000 MT/year*
- *rPET Granules 50000 MT/year*
- *rHDPE/rPP Granules 25000 MT/year*

02

## Advanced Decontamination System

The plant uses a multi-step filtration and washing process. Bottles are thoroughly washed, shredded, and decontaminated using state-of-the-art technology. This ensures that the output granules are of food-grade quality and meet customer-specific requirements.

03

## End-to-End Traceability

The system enables full traceability from bottle to granule. Every step of the process is monitored and recorded, ensuring transparency and quality control. This helps in meeting regulatory standards and ensures consumer confidence in the recycled products.



# rPET

## Food grade packaging

Dodhia Petloop leads the way in recycled plastic solutions for a complete circular economy. Our state-of-the-art European technology ensures outstanding rPET quality, produced through a rigorous quality control process. We are confident in supplying food-grade rPET resin for packaging, contributing to a more regenerative economy.



<b>rPET Flakes</b>		rPET Resin   Textiles   Sheets	
Property	Test method	Value	Unit
PVC & Paper	DSL/QA/0015	<30	ppm
Metals	DSL/QA/0015	<10	ppm

<b>rPET Petoloop 076</b>		Bottles   Containers   Jars   Sheets	
Property	Test method	Value	Unit
Intrinsic Viscosity (IV)	ASTM D4603	0.76 ± 0.02	dL/g

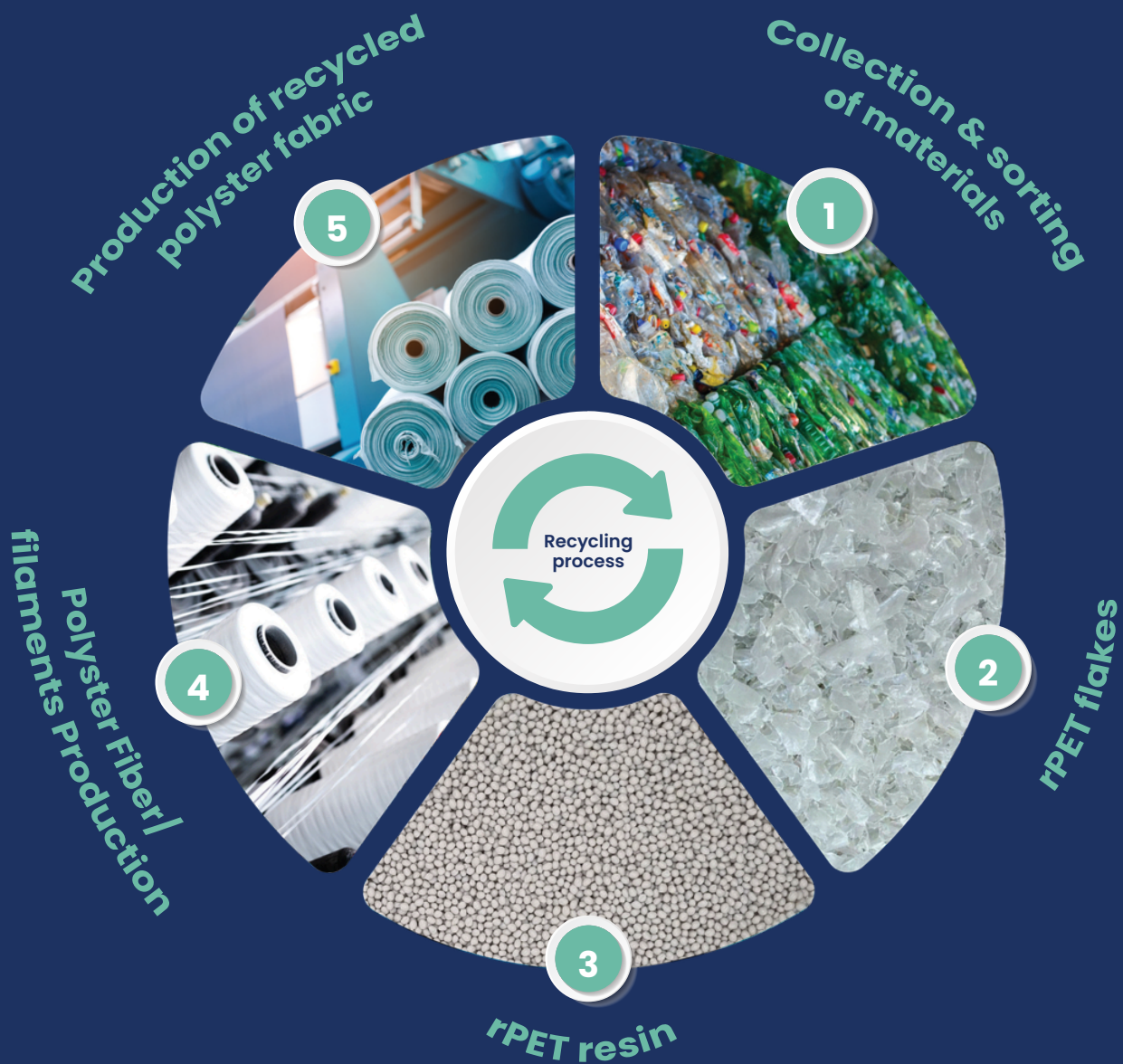
<b>rPET Petoloop 080</b>		Bottles   Containers   Jars   Sheets	
Property	Test method	Value	Unit
Intrinsic Viscosity (IV)	ASTM D4603	0.80 ± 0.02	dL/g

<b>rPET Petoloop 084</b>		Bottles   Containers   Jars   CSD   Sheets	
Property	Test method	Value	Unit
Intrinsic Viscosity (IV)	ASTM D4603	0.84 ± 0.02	dL/g



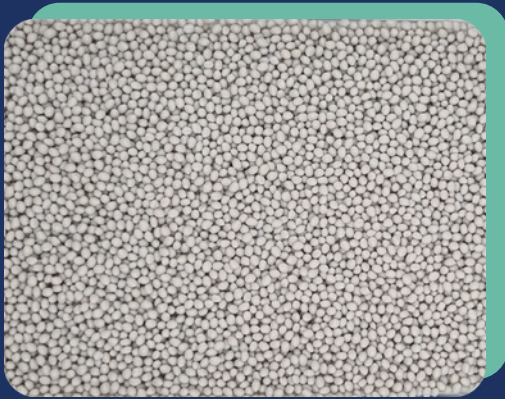
# rPET Textile

Dodhia Petoloop leads the way in recycled plastic solutions for a complete circular economy. Our state-of-the-art European technology ensures outstanding rPET quality, produced through a rigorous quality control process. We are confident in supplying rPET Resin specially designed for staple fibres and filament yarns.



rPET Petoloop 064 Bright		Fiber/Filaments	
Grade	Test method	Value	Unit
Petoloop 064BRT	ASTM D4603	0.64 ± 0.02	dL/g

rPET Petoloop 064 Semi-dull		Fiber/Filaments	
Grade	Test method	Value	Unit
Petoloop 064SD	ASTM D4603	0.64 ± 0.02	dL/g



rPET chips are suitable for making filament yarn and staple fibers



**Uniform  
particle size**



**Controlled  
impurity**



**Tolerant  
viscosity**



# rHDPE

Recycled High-density polyethylene is made from post-consumer bottles and caps to give new life by producing high quality rHDPE resin. Our sustainable process includes flaking, washing, color sorting and pelletizing, all while adhering to strict quality control standards.



## rHDPE Injection

Grade	Color	MFI @ 2.16 kg	MFI @ 5 kg	Test Method
rHD13G01	Green	3 ± 2	8 ± 4	ASTMD 1238 (@ 190°C, 10 mins)
rHD13B01	Blue			
rHD13Y01	Yellow			
rHD13W01	White			
rHD13R01	Red			
rHD13BK01	Black			

**Recommended Application:** Injection molding

## rHDPE Blow Molding

MFI@190°C

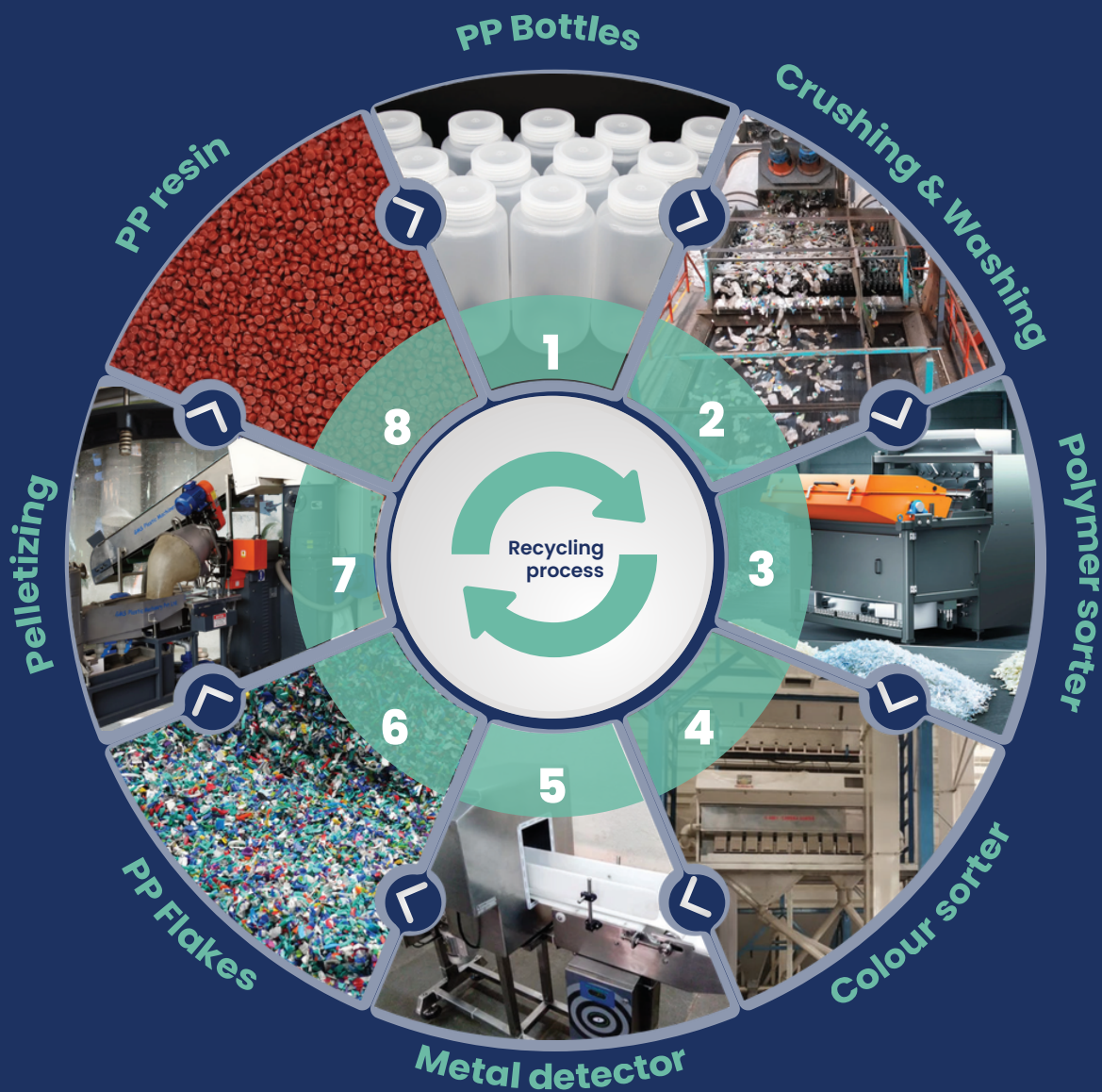
Grade	Color	MFI @ 5 kg	Test Method
rHDB02B01	Blue	0.2 ± 0.1	ASTMD 1238 (@ 190°C, 10 mins)
rHDB02W01	White		
rHDB02BK01	Black		
rHDB05B01	Blue	0.5 ± 0.2	
rHDB05W01	White		
rHDB05BK01	Black		
rHDB1W01	White	1.0 ± 0.5	
rHDB1BK01	Black		

**Recommended Technology:** Extrusion and Extrusion blow molding



# rPP

**Recycled Polypropylene** (rPP) is made from everyday household items and bottle caps through a careful process. We sort these items by flaking, washing, color sorting and turn them into new, high-quality plastic resin. Our strict quality checks ensure a great final product.



## rPP Injection

Grade	Color	MFI @ 2.16 kg	MFI @ 5 kg	Test Method
rPPI5W01	White	5 ± 2	30 ± 10	ASTMD 1238 (@ 230°C, 10 mins)
rPPI5Y01	Yellow			
rPPI5R01	Red			
rPPI5BK01	Black			
rPPI4GY1	Grey			





# Packaging

Our recycled resins are carefully packaged following international export standards to guarantee safe and efficient transport. We are committed to providing fast delivery to all our customers, both locally and internationally.



### **rPET Flakes**

1030kgs/Jumbo bags  
22.5 Tons/40'fcl cont



### **rPET Granules**

1150kgs/Jumbo bags  
23 Tons/20'fcl cont



### **rHDPE**

25kgs/bag  
24.75 Tons/40'fcl cont



### **rPP**

25 kgs/bag  
24.75 Tons/40'fcl cont

# Quality Management

At Dodhia Petoloop, quality is our top priority. We leverage the state-of-the-art European recycling technology, a strict quality control process, and an expert team operating our advanced laboratory facilities to deliver superior recycled pallets. Our commitment to quality is further validated by certifications from prestigious global units.



**The most modern European recycling technology**

**Strict quality control process with modern testing machines**



**Certifications issued by prestigious global units**

**An expert team manages our well-equipped laboratory facilities**



# Dodhia Synthetics LTD

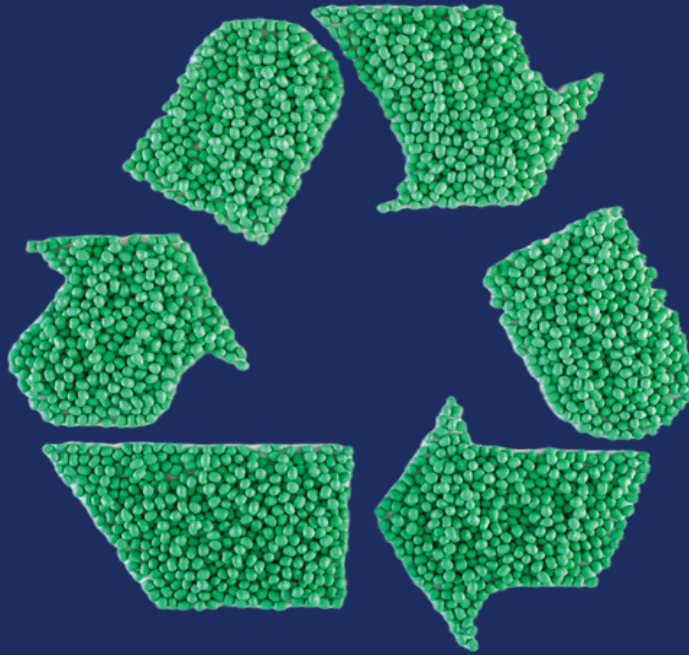
## Details of Lab Instruments

Sr. No.	Instruments Name
1	Differential Scanning Calorimeter (DSC)
2	Inductively Coupled Plasma Mass Spectrometer (ICPMS)
3	GCMS with Headspace Sampler
4	HPLC
5	Colour (Hunter Lab)–USA
6	Viscosity Measuring Device With Chiller
7	Muffle Frunace
8	Hot Air Oven
9	Ultra Violet Cabinet with commercial Filter
10	Analytical Balance with Density Kit
11	Melt Flow Index Tester
12	Tensile & Flexural Tester
13	Injection Moulding
14	Izod / Charpy Tester
15	Carbon Content Tester
16	Sesotec Flake Scanner





Visit our website



“From discarded to sustainable:  
*the power of one bottle*”

**Dodhia**

**DODHIA GROUP**

1001, Filix Towers, Opp. Asian Paints, LBS Marg,  
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