



IMPERION

— ENTERPRISES —

CONNECTING MARKETS. DELIVERING VALUE.

About Imperion Enterprises

Imperion Enterprises is an India-based export company specializing in the supply of **Virgin & Recycled polymers granules** to **European Union (EU), United States (USA) & Asian** markets. We work closely with authorized facilities and processing units to deliver materials that comply with **international quality, environmental and regulatory standards**.

Our product portfolio includes **Polyethylene (PE), Polypropylene (PP), Polystyrene (PS), Acrylonitrile Butadiene Styrene (ABS) , Polyvinyl Chloride (PVC) ,Polyamide [PA6/PA66]** in both virgin as well as recycled form.

We support our global clients with:

- ❖ Consistent material quality
- ❖ Transparent technical documentation
- ❖ Compliance with **EU3011 plastic waste listing**
- ❖ Alignment with **Basel Convention B3011** requirements

Regulatory & Compliance Framework

Regulation / Standard	Description
EU3011	EU classification for non-hazardous plastic waste suitable for recycling
Basel Convention B3011	Plastic waste almost free from contamination and destined for environmentally sound recycling
WEEE Directive	Waste Electrical and Electronic Equipment compliance
ELV Directive	End-of-Life Vehicle plastics compliance
REACH / RoHS (on request)	Material declarations available based on application

Product Portfolio Overview

Polymer	Typical Form	Recycled Source Streams	Primary Applications
PP – Polypropylene	Flakes / Chips	Automotive bumpers, SDA, ASR	Automotive parts, compounding
PS – Polystyrene	Flakes	Refrigerators, SDA	Appliance housings, insulation
ABS	Flakes / Chips	WEEE, monitors, SDA	Electronics, injection moulding
PE (Polyethylene) HDPE/LDPE	Flakes / Chips	Mixed post-consumer	Beverage closures, storage bins and consumer toys.
PVC	Powder / Pellet	Refrigeration insulation	Energy recovery / industrial use
Polyamide (PA6/PA66)	Granules/Flakes	Automotive/Industrial	Automotive/Industrial

TECHNICAL SPECIFICATIONS

Notes:

- *All values are indicative / typical*
- *Final properties depend on grade, additives, fillers and processing conditions.*
- *Full TDS, COA, REACH / RoHS can be provided grade-wise.*

1. Polypropylene (PP)

Parameter	Virgin PP	Recycled PP (rPP)
Polymer Type	Polypropylene	Polypropylene
Feedstock Origin	Petrochemical	PCR / PIR
Recycled Content (%)	0	70–95
Density (g/cm ³)	0.90 – 0.91	0.90 – 0.92
Melt Flow Index (MFI)	0.3 – 40 g/10 min	0.5 – 25 g/10 min
Test Condition (ISO 1133)	230°C / 2.16 kg	230°C / 2.16 kg
Tensile Strength (MPa)	30 – 38	22 – 32
Flexural Modulus (MPa)	1,200 – 1,700	1,000 – 1,500
Izod Impact Strength	Medium–High	Medium
Ash Content (%)	<0.1	≤1.0
Moisture Content (%)	<0.01	≤1.0
Colour Consistency	Natural / Masterbatch	Grey / Black / Mixed
Processing Methods	Injection, extrusion, blow moulding	Injection, extrusion
Typical Applications	Automotive, packaging	Automotive parts, crates

2. Polystyrene (PS)

Parameter	Virgin PS	Recycled PS (rPS)
Polymer Type	GPPS / HIPS	PS
Recycled Content (%)	0	65–80
Density (g/cm ³)	1.04 – 1.06	1.04 – 1.07
Melt Flow Rate (MFR)	2 – 20 g/10 min	3 – 15 g/10 min
Test Condition (ISO 1133)	200°C / 5 kg	200°C / 5 kg
Tensile Strength (MPa)	40 – 55	30 – 45
Vicat Softening Temp (°C)	90 – 100	85 – 95
Impact Resistance	Low–Medium	Low–Medium
Ash Content (%)	<0.1	≤1.5
Moisture Content (%)	<0.1	≤1.0

Colour	Transparent / White	Off-white / Mixed
Applications	Appliance housings	Appliance parts, insulation

3. Polyethylene (PE)

- HDPE

Parameter	Virgin HDPE	Recycled HDPE (rHDPE)
Density (g/cm³)	0.94 – 0.97	0.94 – 0.96
Recycled Content (%)	0	70–95
Melt Flow Index (MFI)	0.05 – 20	0.1 – 15
Test Condition (ISO 1133)	190°C / 2.16 kg	190°C / 2.16 kg
Tensile Strength (MPa)	25 – 37	20 – 32
ESCR (hrs)	High	Medium–High
Ash Content (%)	<0.05	≤1.0
Moisture Content (%)	<0.01	≤1.0
Colour	Natural / Black	Grey / Black
Applications	Pipes, containers	Pipes, drums

- LDPE

Parameter	Virgin LDPE	Recycled LDPE (rLDPE)
Density (g/cm³)	0.91 – 0.93	0.91 – 0.94
Recycled Content (%)	0	70–95
Melt Flow Index (MFI)	0.3 – 15	0.5 – 10
Test Condition (ISO 1133)	190°C / 2.16 kg	190°C / 2.16 kg
Tensile Strength (MPa)	8 – 12	6 – 10
Elongation (%)	400 – 600	300 – 500
Ash Content (%)	<0.1	≤1.5
Applications	Films, liners	Bags, agricultural films

4. ABS (Acrylonitrile Butadiene Styrene)

Parameter	Virgin ABS	Recycled ABS (rABS)
Density (g/cm ³)	1.03 – 1.07	1.04 – 1.08
Recycled Content (%)	0	65–90
Melt Flow Rate (MFR)	1 – 30	2 – 20
Test Condition (ISO 1133)	220°C / 10 kg	220°C / 10 kg
Tensile Strength (MPa)	40 – 50	30 – 45
Izod Impact (J/m)	150 – 300	120 – 250
Vicat Softening Temp (°C)	95 – 110	90 – 105
Moisture Absorption (%)	0.2 – 0.4	0.3 – 0.6
Applications	Electronics, automotive	Interiors, housings

5. PVC – Polyvinyl Chloride (Rigid / uPVC)

Parameter	Virgin PVC	Recycled PVC (rPVC)
Density (g/cm ³)	1.35 – 1.45	1.35 – 1.50
Recycled Content (%)	0	60–85
K-Value (EU-Specific)	57 – 67	55 – 65
Tensile Strength (MPa)	45 – 60	35 – 55
Vicat Softening Temp (°C)	75 – 85	70 – 80
Ash Content (%)	<0.5	≤2.0
Colour	White / Grey	Grey / Mixed
Applications	Pipes, profiles	Pipes, conduits

6. Polyamide – PA6 / PA66

Parameter	Virgin PA6 / PA66	Recycled PA6 / PA66
Density (g/cm ³)	1.12 – 1.15	1.13 – 1.16
Recycled Content (%)	0	50–85
Melt Flow Rate (MFR)	5 – 60	5 – 40
Test Condition (ISO 1133)	275°C / 5 kg	275°C / 5 kg
Tensile Strength (MPa)	60 – 90	45 – 80
Melting Point (°C)	220–265	215–260
Moisture Absorption (%)	1.5 – 3.0	2.0 – 4.0
Heat Resistance	Very High	High
Applications	Gears, bearings	Automotive, industrial parts

Packaging & Logistics

- Export packaging: **Big Bags / Palletized**
- Standard documentation:
 - Invoice & Packing List
 - COO
 - MSDS (on request)
 - Technical Data Sheet
- Shipping: **FOB / CIF / CFR**
- Global logistics support for **EU & USA ports**

Why Imperion Enterprises?

- EU & US market–focused exporter
- Technically documented material supply
- Transparent impurity & purity declarations
- Compliance with international waste shipment regulations
- Reliable sourcing from authorized facilities

Contact Us

For business inquiries, partnerships, or product details, please reach out to us. Our team will be happy to assist you with reliable export solutions.

Imperion Enterprises

 **Head Office:** Office no 24A, Okaz Shopping Centre, Millat Nagar, Andheri west, Mumbai, Pincode- 400053

 **Email:** info@imperionenterprises.com

 **Phone:** +91- 9619760036 / 7021831458

 **Website:** www.imperionenterprises.com