



**ALLIANCE
RECPET**
PVT. LTD.

THE VENTURE OF

**ALLIANCE
GROUP**

For Greener & Cleaner Future

Choose recycled pellets for circularity.



Recycled PET Flakes
Recycled food-grade PET Chips/Pellets
Recycled PP/PE Regrind
Recycled PP/PE Granules



Recycle for ∞ Possibilities

About Us

At Alliance Recpet Pvt Ltd, we believe that recycling is an essential step towards a sustainable future. We are committed to providing high-quality recycled plastic products that can be used in a wide range of industries, including food-grade, technical textiles etc. By using our products, our customers can reduce their carbon footprints by contributing towards a cleaner planet.

Our technical experts are dedicated to improving our production processes and developing new, innovative products. We continuously research and implement advanced technologies to ensure our products meet highest quality and environmental standards.

Alliance Group has already recycled 20bn+ Plastic bottles into textile raw materials since 2006. Alliance Recpet Pvt Ltd is established with goal to provide sustainable & circular packaging solutions to the industry.



Alliance Recpet Pvt Ltd is a company committed to providing sustainable plastic raw materials which contribute to a better future.

Production Capacity



36k+ tonnes
Flakes per year



25k+ tonnes r-PET
food-grade chips/pellets per year



10k+ tonnes
r-PP/r-HDPE Granules per year

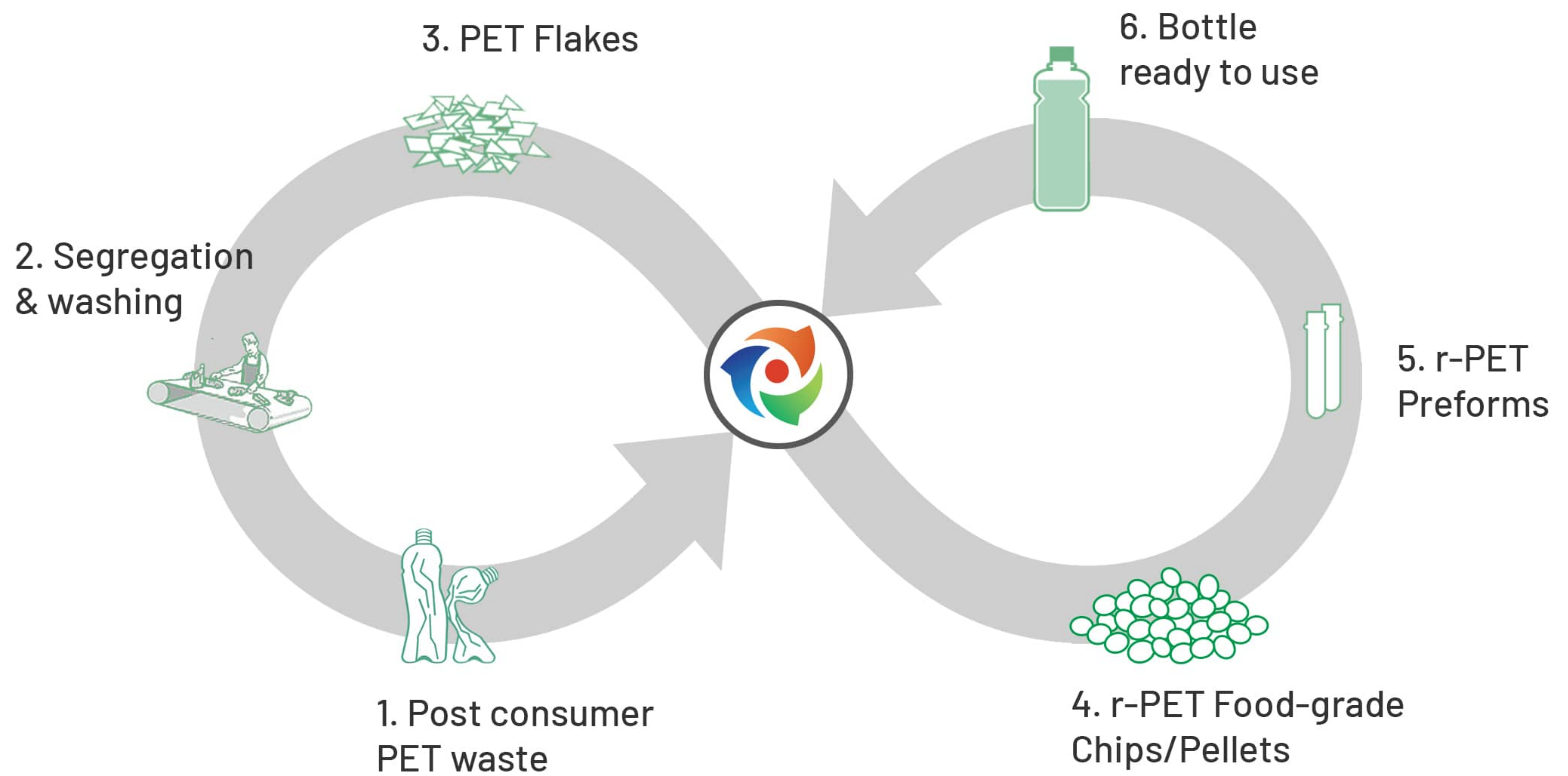


10k+ tonnes
r-PP/r-HDPE Regrind per year



Promoting Circular Economy

BOTTLE TO BOTTLE APPROACH



Keeping Sustainability at the core



Conserves
3.8 barrels oil
by recycling 1MT PET waste



Reducing
Carbon Footprint
by recycling PET waste



Saving
6 yards³ space
by recycling 1MT PET waste



Recycled PET Flakes

We are manufacturing high quality prime grade recycled PET Flakes from the post consumer PET Bottle Waste. Our annual production capacity for r-PET Flakes is 36,000 MTA. We are using state-of-the-art European technology - Precision Grinders, Bottle Sorters & Flakes Sorters to produce flakes for high end application such as bottle-to-bottle & PET Sheet manufacturing. We maintain consistent quality parameters with minimum contaminations. Our 100% Crystal Flake s are being exported to all over the globe.

We provide customized solutions to meet customer requirements for specific end uses such as food-grade flakes (>95% food-grade feedstock), specific flake size requirements.

Our r-PET Flakes are **REACH** compliant. We can do REACH Test on customer request.



Our Certifications



Technical Datasheet

Sr No.	Test Characteristics	Grade/ Specification	Unit
01	Intrinsic Viscosity	0.74-0.77	dl/gm
02	Melting Point	250-260	°C
03	PVC	< 10 PPM	PPM
04	PVC Hard Paper	< 10 PPM	PPM
05	OTHER (Rubber, PC, PP, HDPE, LDPE, Wood, Stone)	< 10 PPM	PPM
06	Metal	< 2 PPM	PPM
07	Moisture	< 1%	%
08	Bulk Density Flakes	Min. 280 - Max. 350	kg/m³
09	Caustic	< 02	PH
10	Ash	< 0.05%	%
11	Flakes Size	Nominal 3mm-12mm	MM
12	Fine (<1 mm)	< 0.05%	%
13	Flakes Content Small(<3 mm)	Max. 2%	%
14	Flakes Content Oversized (>12mm)	Max. 4%	%
15	Product Temperature	Min. 15 - Max. 60	°C
16	Base Content Flakes (PH-Value in De-ionized Water PH 6.5 to 7.5)	< 8	
17	Residual surface contaminants including glue, wash chemicals	Max. 20	PPM

Types



Crystal Clear r-PET Flakes



Green r-PET Flakes

Packaging

A- Tall Bags on pallets (1100kg)
Stuffing quantity : 23-24 MT/40ft HC Container

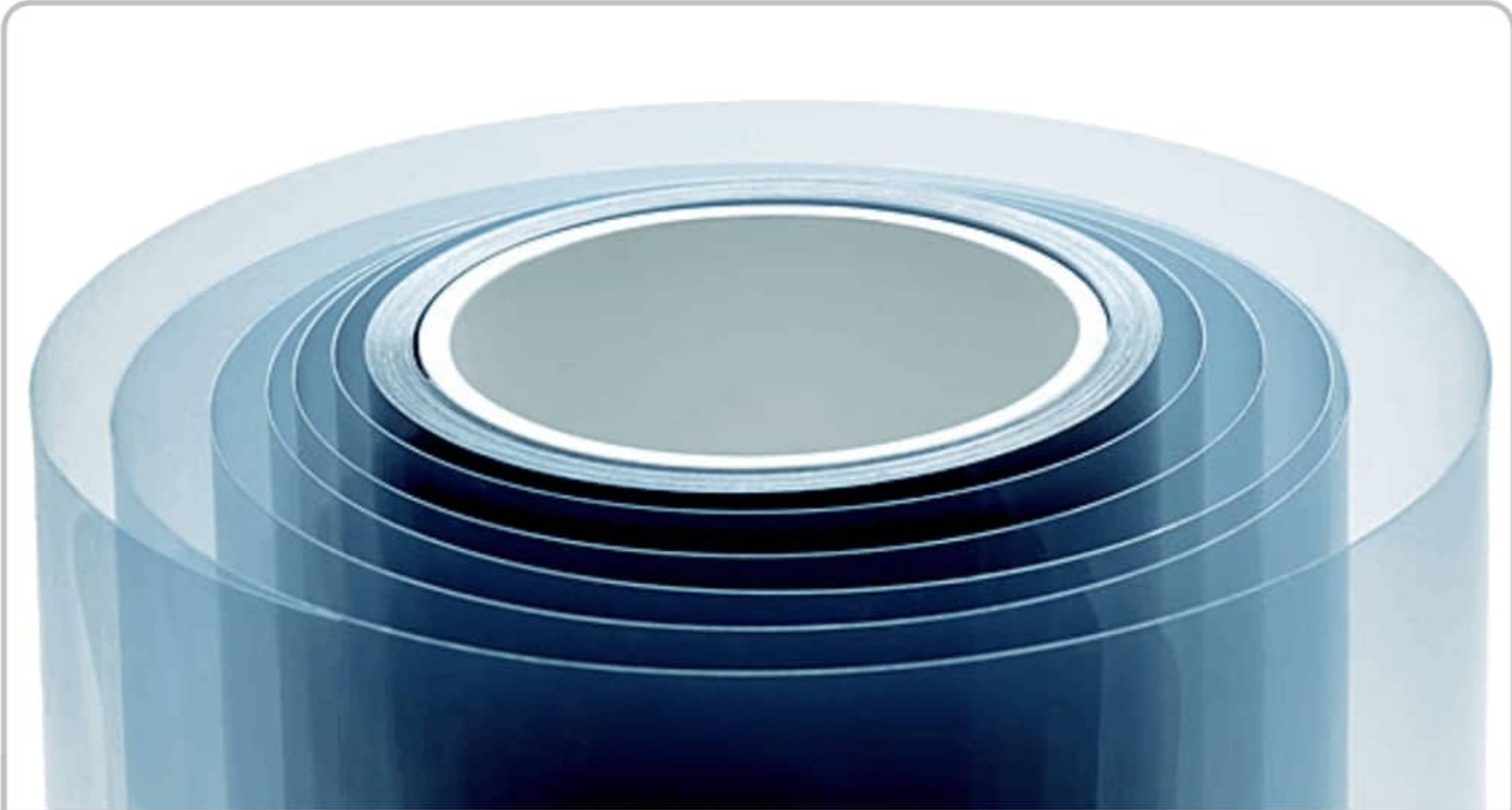
B- Jumbo bags on pallets (500kg)



Applications



Food-grade r-PET Chips Mfg.



PET Sheets & Trays mfg.



Chips for r-PET Yarns / Fibres
/ Technical Textiles



PET Straps for Packaging



Chemical / Polyester Resin
Manufacturing



Polyester Films

r-PET Food-grade Pellets/Chips

Alliance Recpet Private Limited proudly introduces its high-quality food-grade r-PET Pellets, produced from 100% recycled PET bottles using advanced & the world’s best recycling technology which is a combination of EREMA’s pelletizing & Polymetrix’s solid state polycondensation (SSP) to achieve desired output. These pellets are meticulously processed to meet the stringent requirements of food-grade applications, ensuring safety, sustainability, and exceptional performance.

Product Specifications

Sr No	Property	Value	Unit	Testing Standard
1	Intrinsic Viscosity	0.76 to 0.84	dl/g	ASTM D-4603
2	Acetaldehyde	< 1	ppm	ARPL-QC-04
3	Bulk density	approx. 900	kg/m ³	ASTM-D-1895
4	Granulate size	2 to 4	mm	-
5	Dust amount	< 500	ppm	-
6	Moisture	< 0.2	%	-
7	Melting point	240-260	°C	ASTM-D-3718
8	Crystallinity	> 50	%	ARPL-QC-08
9	CIE (L a, b) Color	L* > 68.0 a*: 0 to -3.0 b*: 0 to -3.0	-	ARPL-QC-06
10	Pellets / Gram	50 ± 5	-	ARPL-QC-07
11	Pellet Shape	Spherical	-	-
12	Moisture Content	< 0.5	%	ASTM-D-6908
13	Fines	< 200	ppm	ARPL-QC-11
14	Black Specks (upto 2.0 mm)	< 10	%	ARPL-QC-14

Certifications



Applications



Food-grade bottle Mfg.



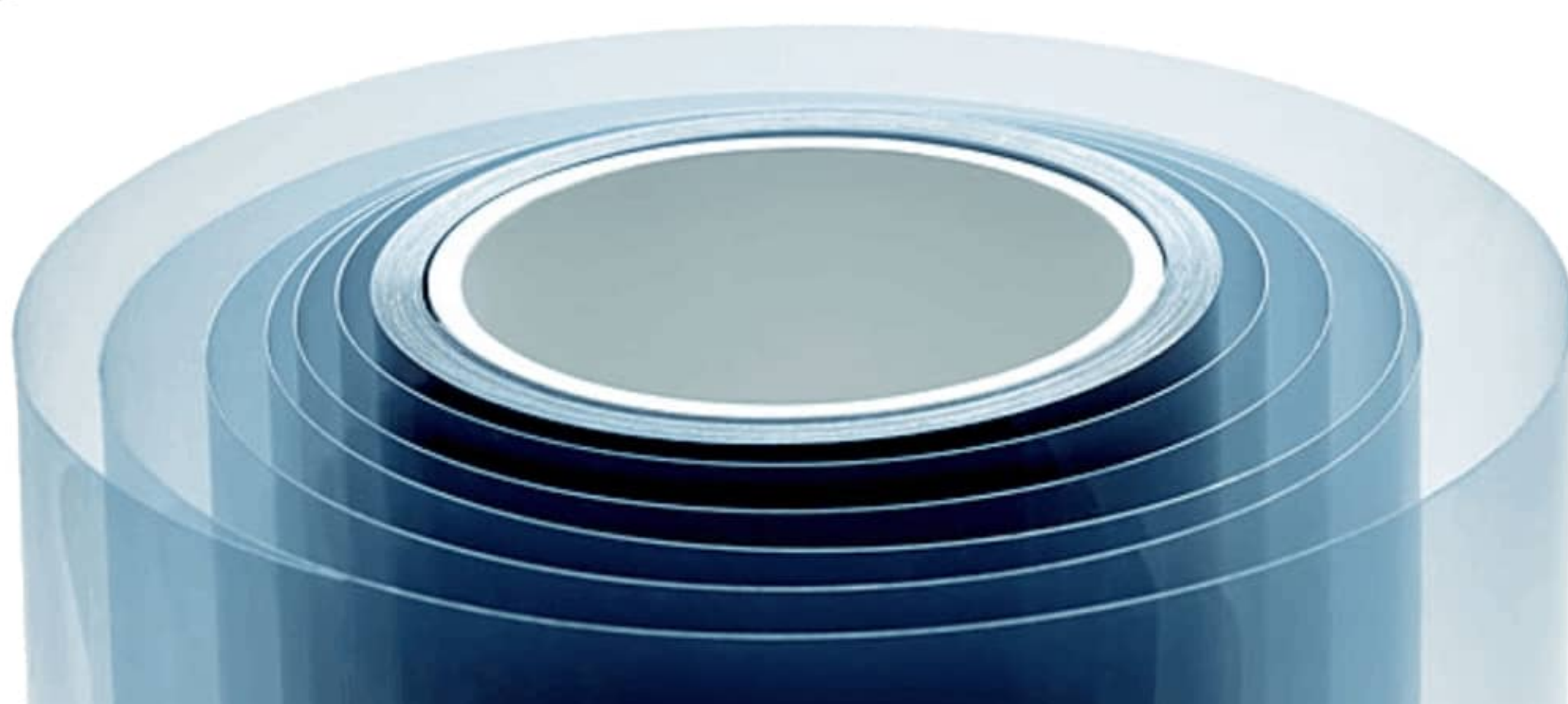
Cosmetics Products
(Non Food Grade)



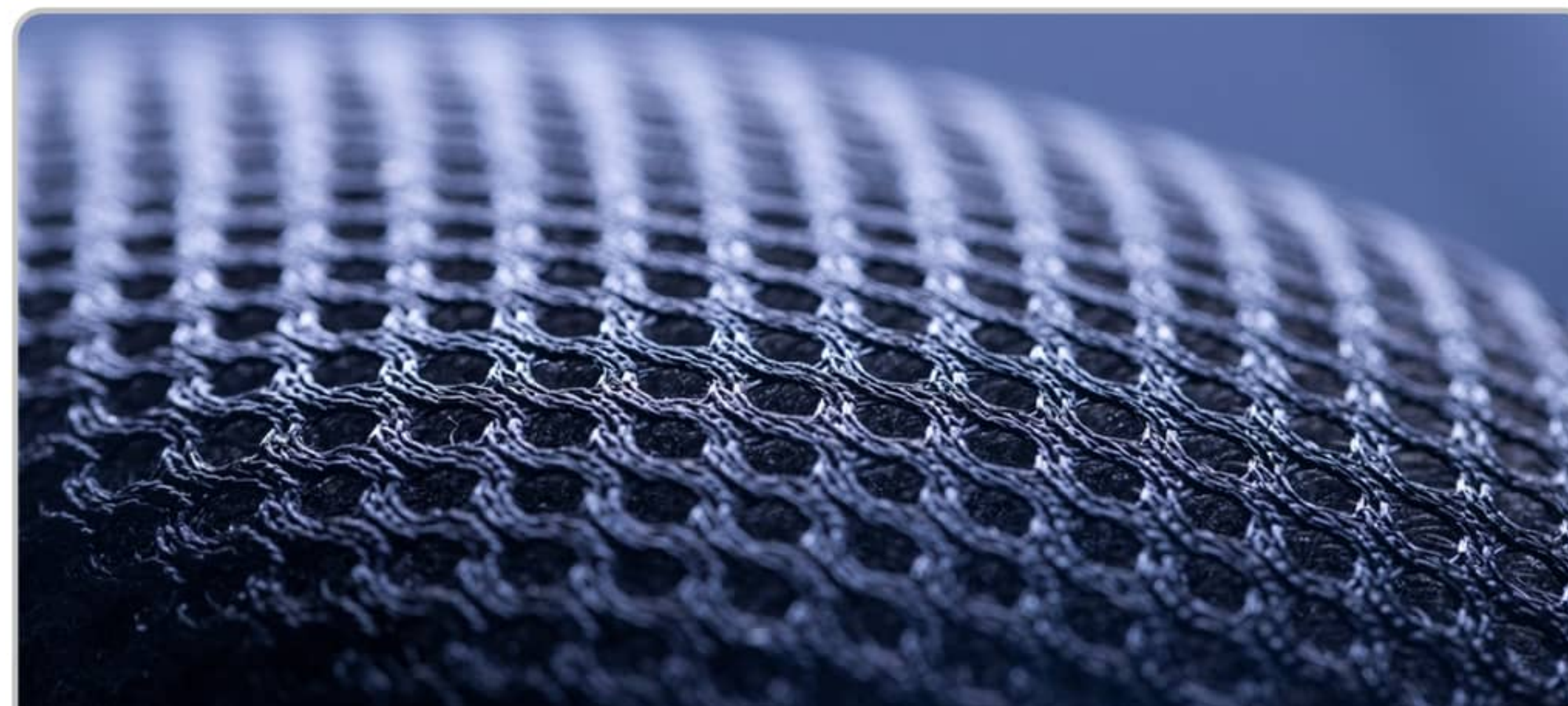
Pharma Industry



Food-grade Thermo Forming
packaging



r-PET Films



Technical Textiles

r-HDPE Granules

At Alliance Recpet Private limited, we produce certified PCR HDPE granules that can be traced and adhered to all necessary certifications. Our range primarily consists of PCR HDPE granules suitable for blow and injection applications. At our facility, all PCR HDPE raw materials are passing through hot washing process before undergoing polymer sorting to ensure the highest purity of HDPE content. We are able to provide PCR HDPE granules with various MFI values.

Product Specifications

Sr No	Property	Typical Value	Unit	Test Method
1	Density (23°C)	0.95 ± 0.02	g/cc	ASTM D 1505
2	MFI (190°C / 2.16 kg)	1.5 to 2	gm/10 min	ASTM D 1238
3	Tensile Strength at Yield	22 ± 5	MPa	ASTM D 638
4	Elongation at Break	450 ± 100	%	ASTM D 638
5	Flexural Modulus	850 ± 150	MPa	ASTM D 790
6	Hardness	69	Shore D	ASTM D 2240
7	Vicat Softening Point	128	C	ASTM D 1525
8	Ash Content	<0.20	%	ASTM D 5630
9	Moisture Content	<0.2	%	ASTM D 6980

*Values may change without any prior notice

Our Certification



Product Features



High Strength & Stiffness



High Rigidity & Durability



Light Weight



UV resistance



Low Carbon Footprint



Circular Economy



Recyclable



Hardness

Applications



Green HDPE Agro Net



Crates



Pallets



Dustbins



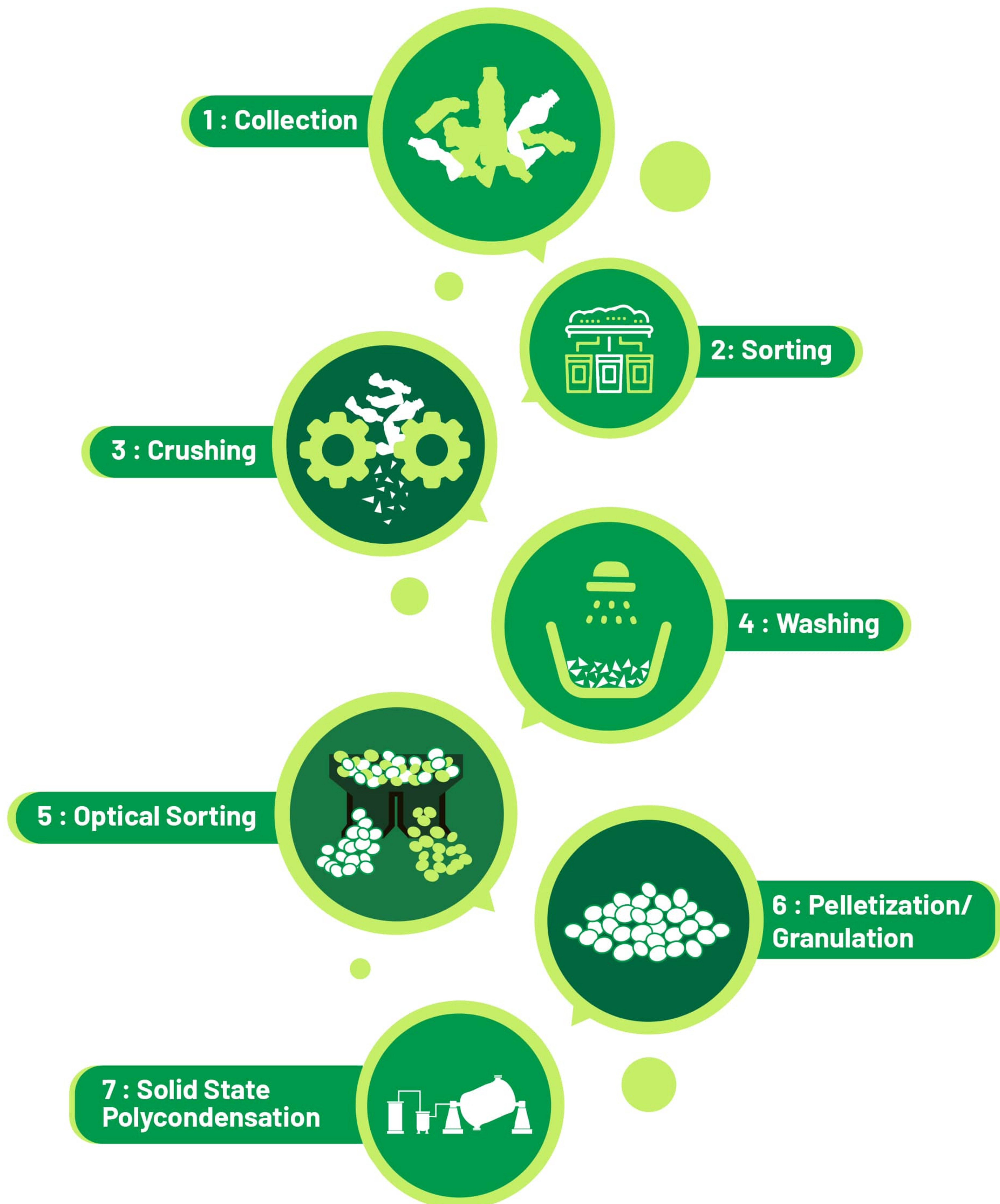
Food-grade Oil Product Packaging



Caps and Closures



The Green Cycle



For Greener & Cleaner Future



Food-grade Recycling with Advanced Equipment

At Alliance Recpet Private Limited, quality is our top priority. Our state-of-the-art equipments and advanced machinery ensure precise quality checks at every stage of production. We are committed to delivering products that meet the highest industry standards and exceed customer expectations.



High Purity Sorting



Food Grade Compliant Washing



Best Extrusion Technology



Precision Decontamination

QC Lab Equipments

We are committed to deliver food-grade compliant products with our advanced testing lab equipments. We are equipped with following advanced equipments...

- **Photo Spectrometer**
- **Gas Chromatography (GCMS)**
- **IV Testing**
- **MFI Testing**





**ALLIANCE
RECPET**
PVT. LTD.

GSTIN No: 24AAGCE9999M1ZN | CIN No: U17299GJ2022PTC121222



REGISTERED OFFICE

Block No. 203P, Plot No. 1,2,7 & 8,
Village: Mota Borasara, Tal: Mangrol,
Dist: Surat, Gujarat (INDIA) 394110.



+91 99133 57965 / +91 90998 71007
+91 93277 83414



info@alliancerecpet.com



www.alliancerecpet.com



FACTORY ADDRESS

Block No. 214 & 206P, Plot No - 5C, 6B, 7B,
8B, Village: Mota Borasara, Tal: Mangrol,
Dist: Surat, Gujarat (INDIA) 394110.



SCAN TO
VISIT WEBSITE

PRODUCT OF INDIA

THE VENTURE OF



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