



Creating a greener Future with RUPET®

Since 2011



RUPET®
RECYCLED PET

Food Grade Approved
rPET Granules

The Rungta Advantage

We are a pioneer in India's recycling industry with over 14 years of expertise in PET recycling and sustainable material recovery. With strong capabilities in rPET flakes, food-grade resin, process optimization, and scrap procurement, we are a trusted market leader across India and international markets.



Rungta has been at the forefront of adopting modern recycling technologies in India. Committed to growth and innovation, we have adopted cutting-edge Liquid State Polycondensation (LSP) technology from NGR, Austria, for producing our food-grade rPET resin, RUPET®. This advanced setup enables an annual production capacity of 34,560 metric tonnes.



RUPET® Technical Details

Specification	Values	Units	Test Method
Delivery form	Spherical Granules		
Intrinsic Viscosity (iV-Value)	0.76/0.80/0.84+/-0.02	dl/g	P+TCE = 60:40 @ 25°C
Physical/ Chemical characteristics			
Moisture	< 0.3	%	ASTM D6980
Color CIE L	67 ± 2		
a	-3 to ± 2		
b	0 to -3		
Pellet Count	50 - 55	pellet/gram	
Odour	No Odour		
Melting Point	245 ± 5	°C	ASTM D3418
Bulk density	830-910	kg/m3	ASTM D1895
Fines	0.01	%	
Purity Value			
Acetaldehyde	< 1	ppm	GC-MS
Benzene	< 30	ppb	GC-MS
Crystallinity	> 30	%	

*Note: All rPET granules are produced using PET flakes strictly made out of post-consumer Food Contact PET Bottles.

RUPET® Applications



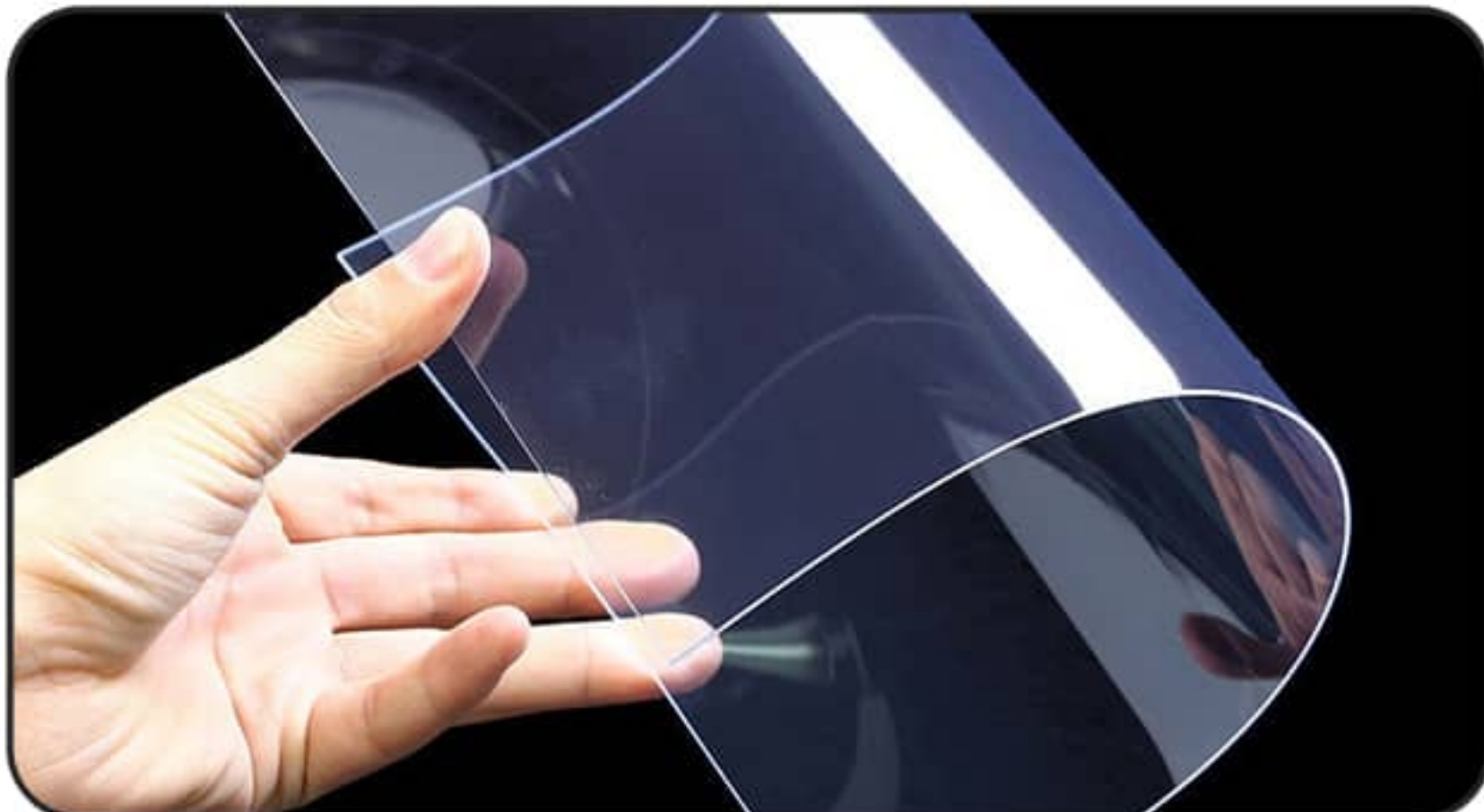
PREFORMS



BEVERAGE/ OIL BOTTLES



FOOD CONTAINERS & TRAYS



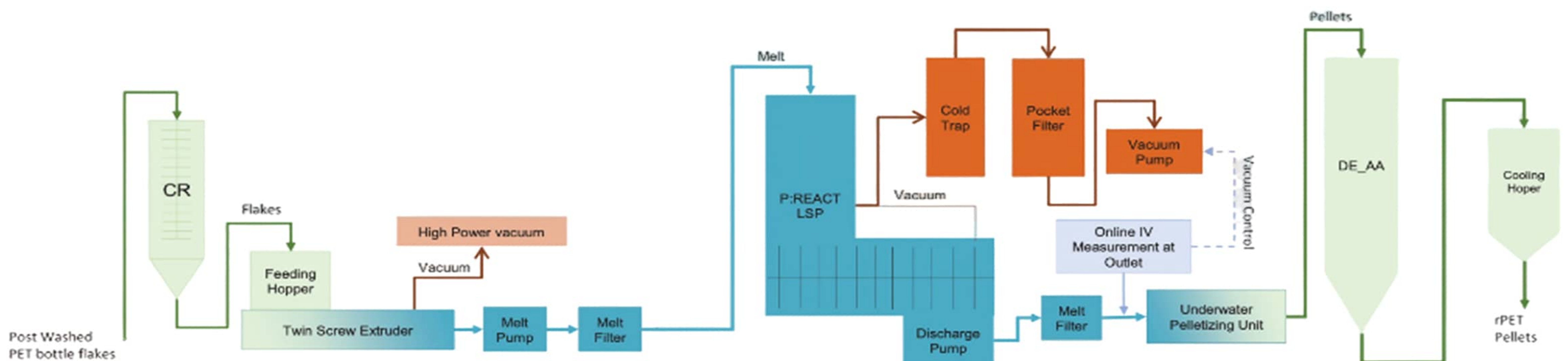
PET SHEET



MULTIFILAMENT YARN

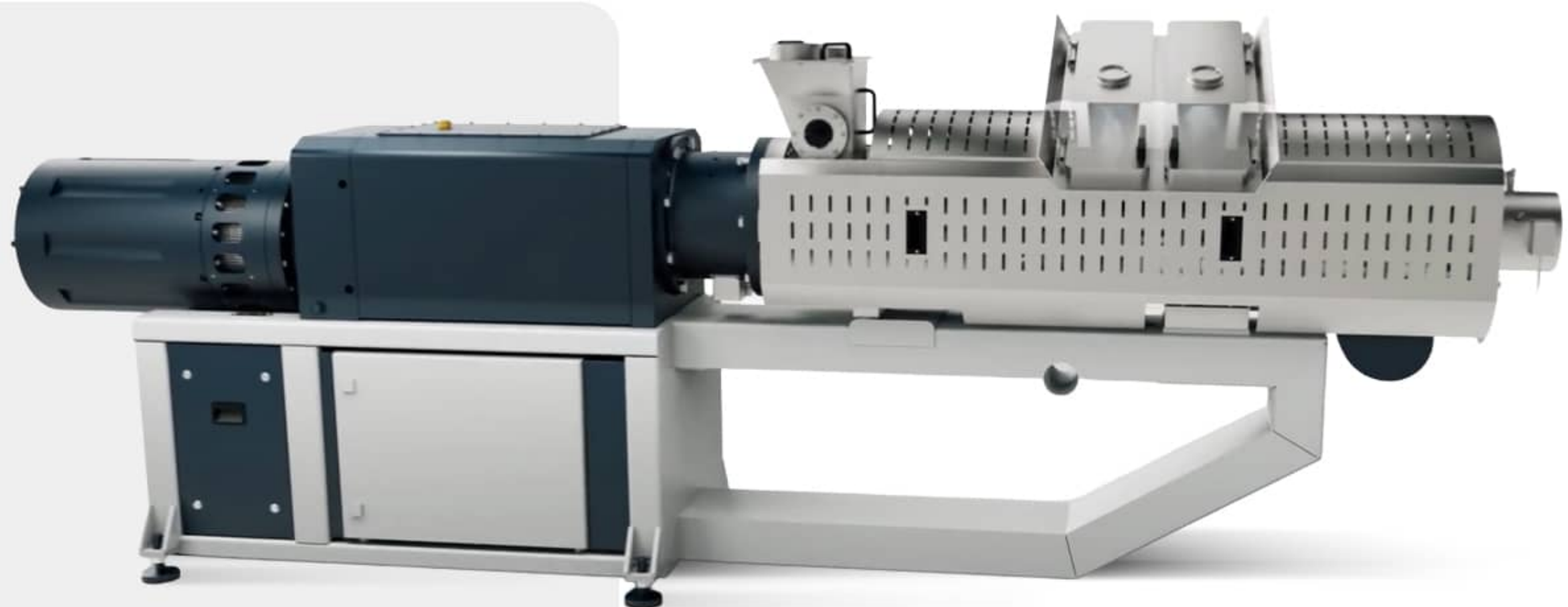
Liquid-State Polymerisation: Redefining rPET Quality

At Rungta Eco Extrusions, we have a cutting-edge Superclean Liquid State Polycondensation (LSP) production line, powered by advanced European technology, to deliver high-quality, food-grade rPET resin that meets global standards.



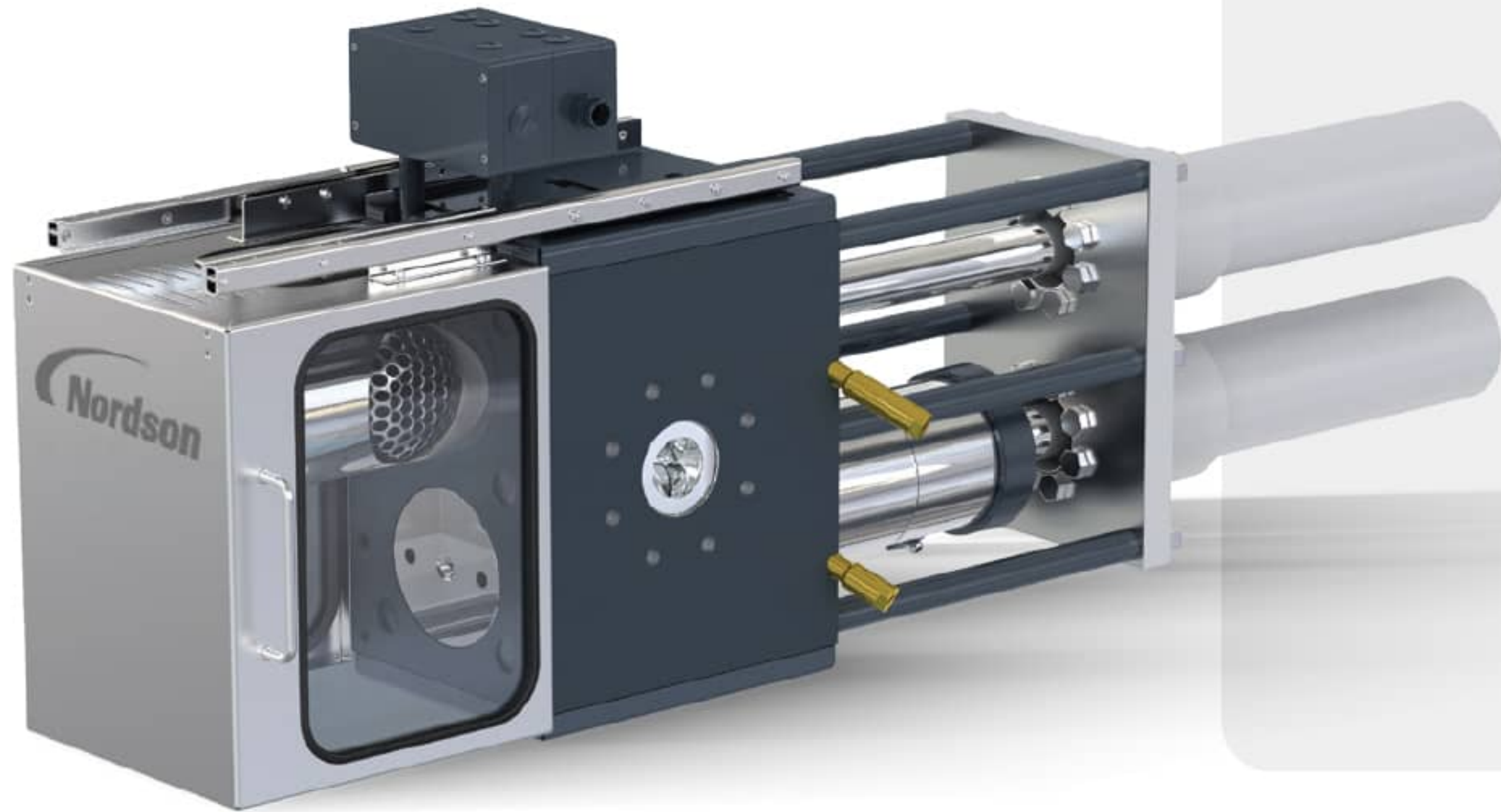
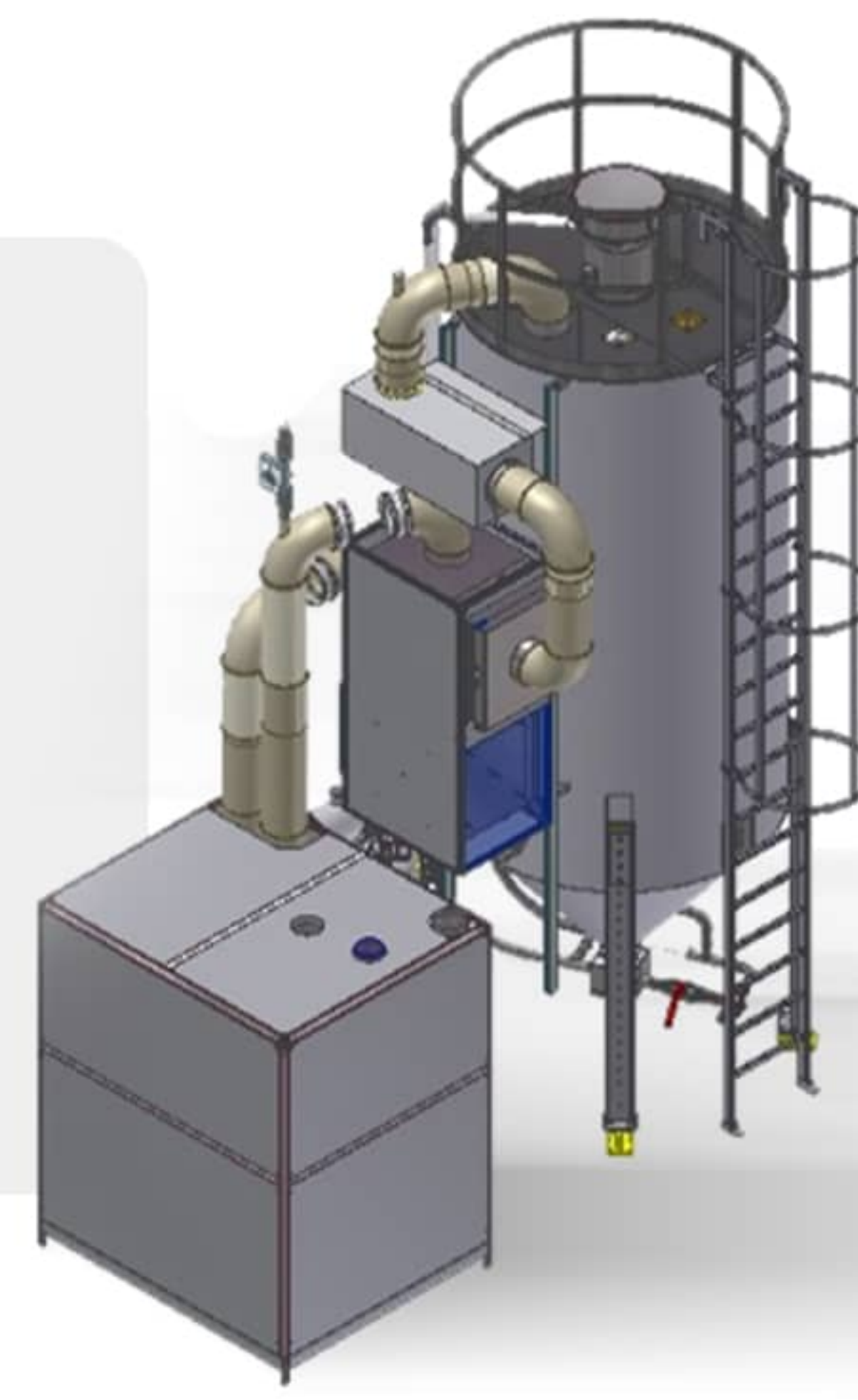
Key Process Highlights:

Twin-Screw Extruder (MAS, Austria): Efficiently melts PET flakes with superior homogenization and degassing.



LSP Reactor (NGR, Austria): Rebuilds intrinsic viscosity (IV) to virgin-like levels under continuous operation, ensuring consistency and performance.

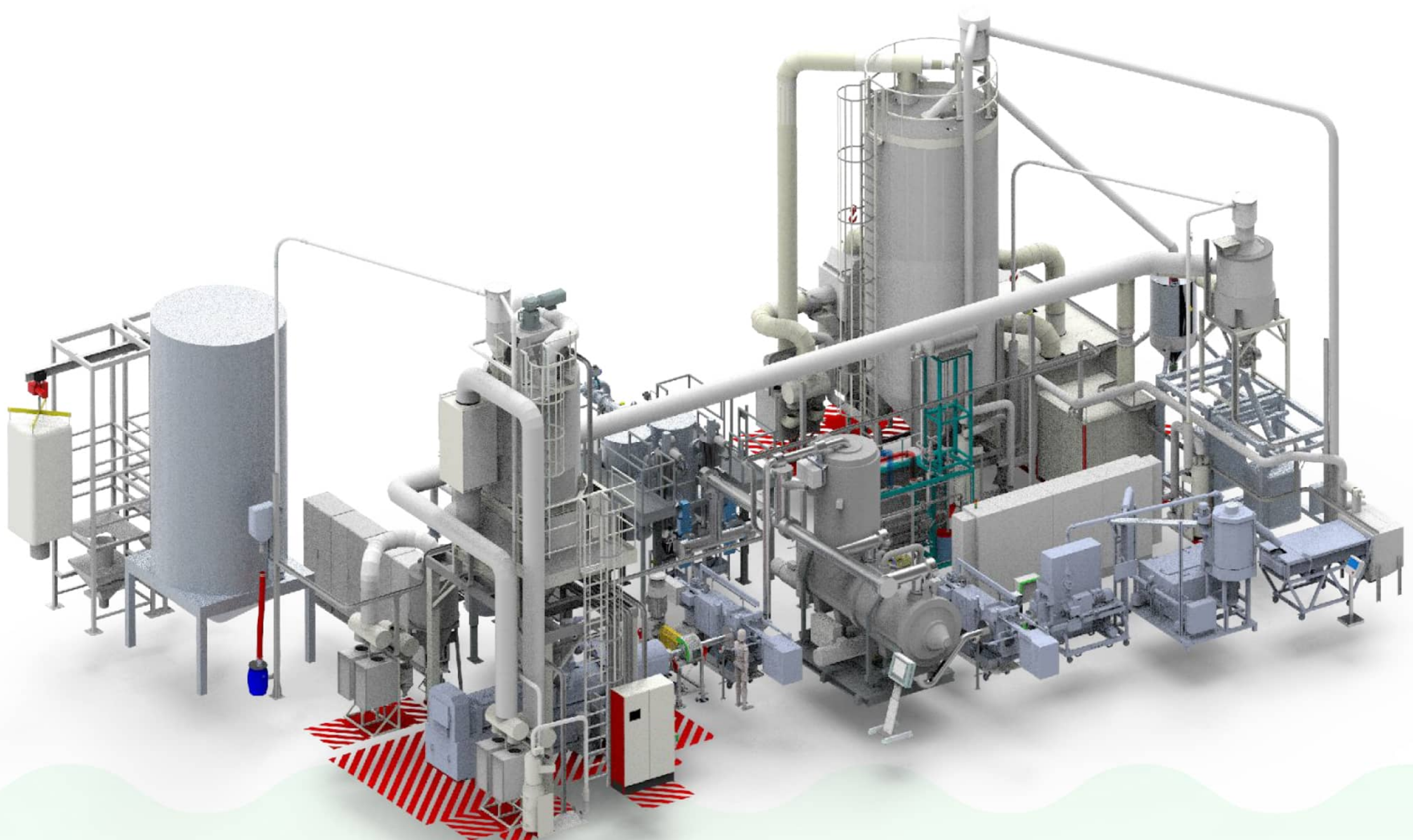
Dealdehydisation (Eisbär, Austria):
Minimizes acetaldehyde content, guaranteeing safety, clarity, and suitability for food-grade applications.



Dual-Stage Filtration: Removes impurities, contaminants, and black specs, resulting in stable IV values and optimal color quality.

The Result:

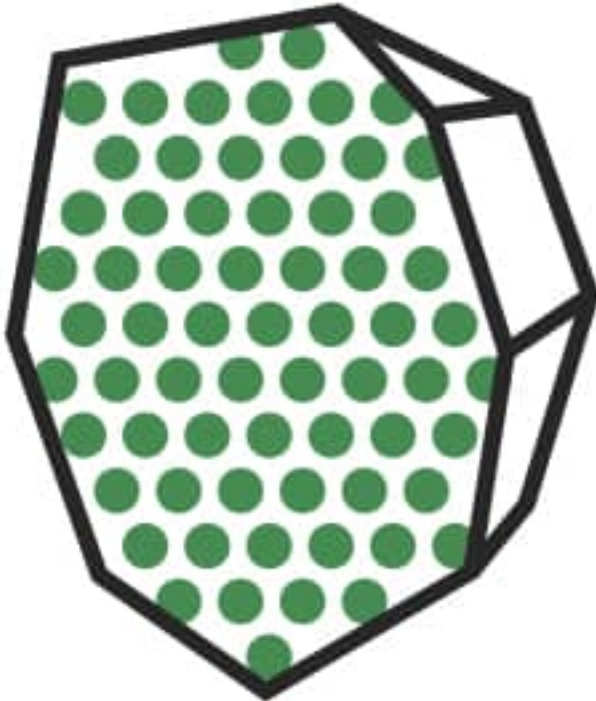
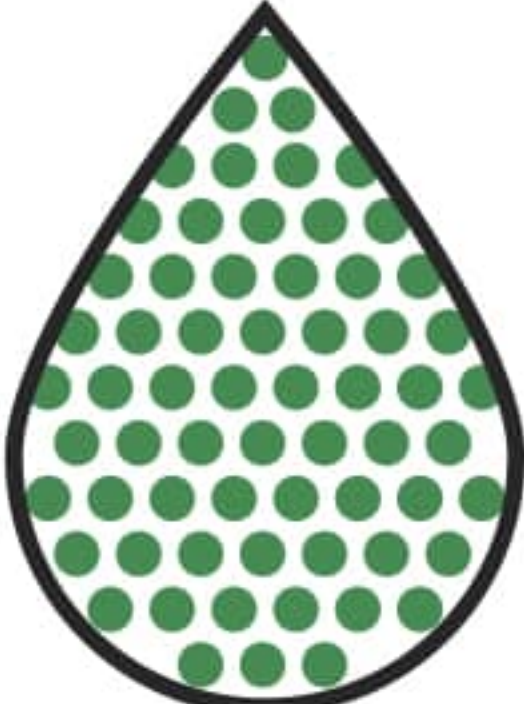
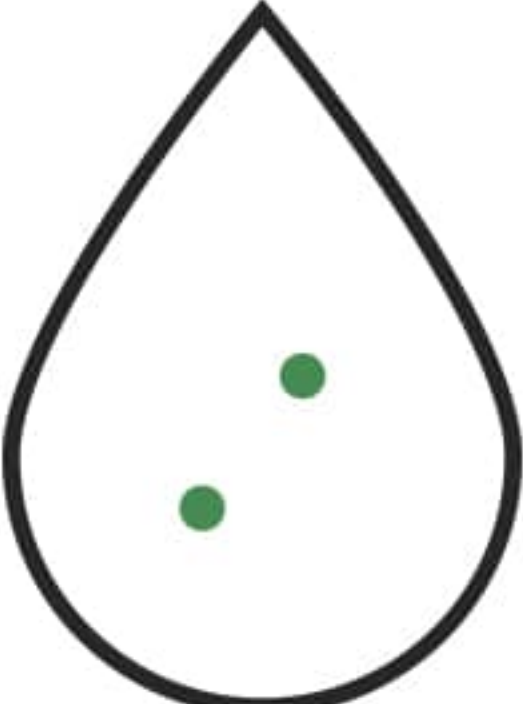
A reliable, sustainable, and globally compliant rPET resin, RUPET® – that combines consistency, safety, and performance, supporting high-quality packaging and circular economy goals.



Why LSP outperforms SSP?

LSP is the technology of the future, ensuring superior uniformity in IV and unmatched product stability. In contrast, traditional SSP is slow & its process limitations often lead to inconsistent IV control, reduced efficiency, while also increasing the risk of thermal degradation.

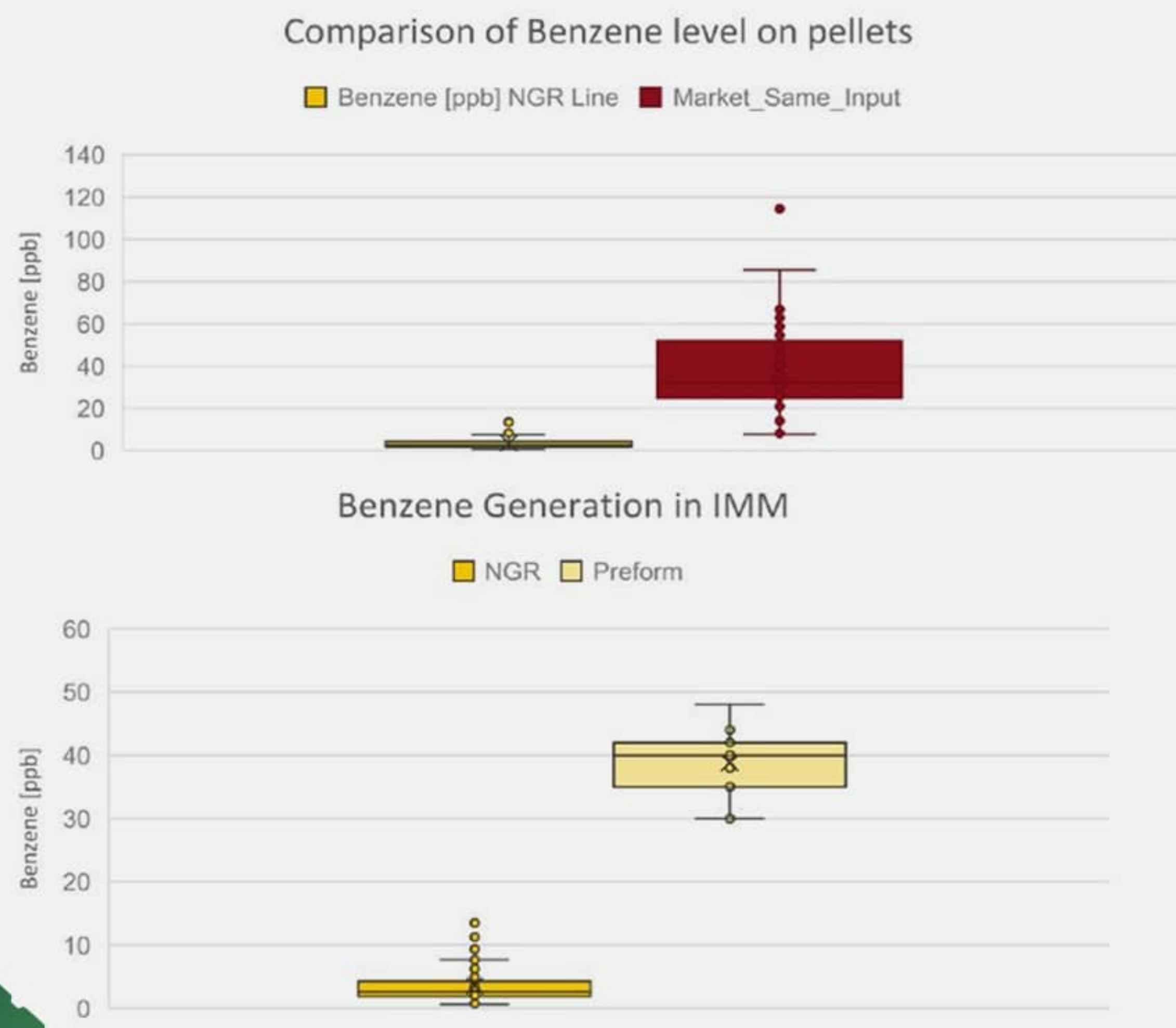
LSP achieves virgin-like performance, minimizing processing issues in bottle manufacturing, film extrusion, and textile production. The liquid phase provides high molecular mobility and greater surface area, enabling exceptionally effective purification. The resulting resin consistently exceeds FDA and EFSA standards; **100% Food safety is thus certified!**

Before Purification		After Purification	
	Impurities SSP		Remaining impurities in the core
	Impurities LSP		Effective purification due to enormous surface area of the material strands

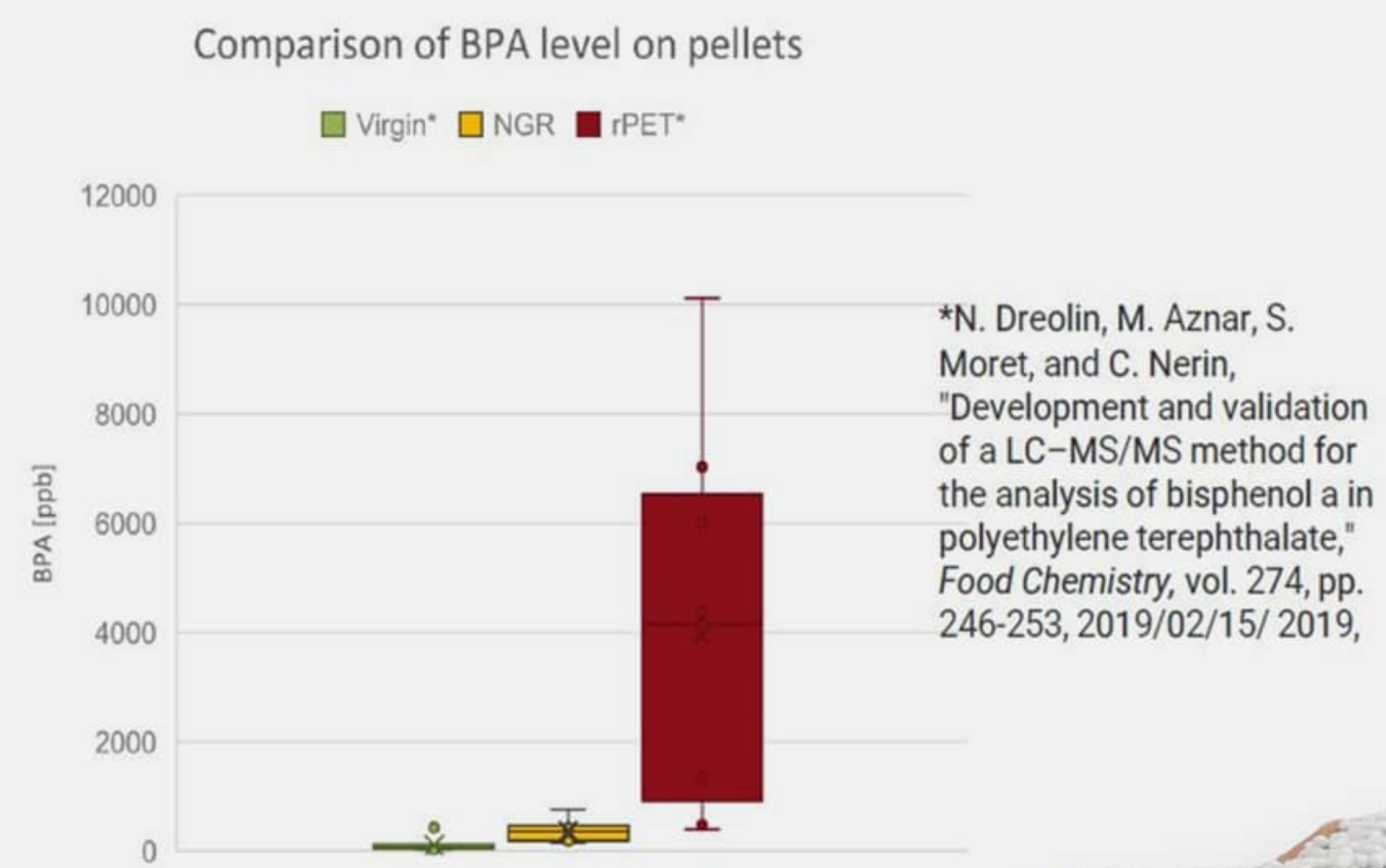
Comparison of decontamination between Liquid state (LSP) & Solid state (SSP) technology			Pellets from LSP- technology (ppm)	Pellets from conventional SSP (ppm)
Analysis Results	COV	Benzene	0.0024	0.0140
		1, 3 diox	0.0011	0.0110
		limonene	0.0004	0.0031



Benzene



BPA



State-of-the-art inhouse Testing Lab

Our dedicated Quality Control (QC) Laboratory ensures every stage of rPET resin production meets the highest standards of safety, consistency, and performance. Equipped with advanced testing systems and stringent protocols, the lab oversees raw materials, in-process checks, and final quality. With skilled professionals and standardized procedures, it drives compliance, continuous improvement, and customer confidence.



Certifications



Application in Process



Rungta Greentech Limited
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