PLASTIC PACKAGING RECYCLING

TECHNICAL DATA SHEET

PRODUCT NAME

PET Hot-Wash Flakes

MATERIAL

Post-Consumer PET Bottles

PRODUCT APPLICATIONS

- Sheet extrusion (APET)
- Thermaforming applications
- rPET pelletizing
- Non-food packaging
- Injection moulding blends
- Strapping
- Filament yarn

PACKAGING & STORAGE

- Supplied in 2.1 m³ bulk bags (approx. 850 kg per bag)
- Bulk bags delivered on wooden pallets for secure transport and handling
- Store in a dry environment, protected from moisture
- Prevent exposure to dust, dirt, or other contaminants

PRODUCT DESCRIPTION

PRODUCTION OF HIGH-QUALITY RECYCLED PET FLAKES FROM POST-CONSUMER PET BOTTLES

Recycled PET flakes derived from post-consumer PET bottles through an integrated mechanical recycling process consisting of sorting, size reduction, hot washing, friction washing, rinsing, drying, and metal detection. The resulting material complies with internal quality standards and customer specifications for downstream conversion into PET sheet, fiber, strapping, and pelletized products.

PROCESS DESCRIPTION

- Pre-sorting (manual + automated)
- Grinding to 5–14 mm flake size
- Hot caustic wash
- Friction washing and rinsing
- Float-sink separation
- Drying
- Metal detection
- Quality control testing

QUALITY ASSURANCE SAFETY & HANDLING

- Product classified as non-hazardous
- Avoid inhalation of dust during handling
- Use gloves and safety glasses as standard PPE
- Clean spillages promptly to prevent slip hazards
- All batches inspected according to internal SOPs

Testing includes:

- ✓ Flake size, density, PVC, metals, glue/labels, & pH residue
- ✓ Full batch traceability maintained through COC batch records

Parameter	Specification	Unit	Typical Result	Test Method
Colour	Clear & Blue	Bulk	Clear & Blue	Visual Inspection
Flake Size	5–14 mm	Bulk	Pass	ISO 12148:2012
Bulk Density	200–400	g/l	296–350	ISO 1183-2:2012
Yellow Flakes	0–3000 ppm	ppm	200–2900	Oven Test
Glue & Labels	0–40 ppm	ppm	0–40	ISO12418-2:2012
PVC	0–15 ppm	ppm	7–9	ISO 15275:2018
Metal	0–4 ppm	ppm	0–3	ISO 14852:2012
pH Residue	<1	pH	0.2–0.40	ISO 10523:2012

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