

TECHNICAL DATA SHEET



PRODUCT NAME

PET Hot-Wash Flakes

MATERIAL

Post-Consumer PET Bottles

PRODUCT APPLICATIONS

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



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 |