



PRODUCT TECHNICAL DATA SHEETS

Recycled PET. Defined by data.

Technical profiles for premium clear, colored and custom-blended hot-washed rPET flakes, food-contact / bottle-to-bottle feedstock, and clear or green rPET granules.

PREMIUM CLEAR FLAKES

FOOD-CONTACT / BOTTLE-TO-BOTTLE

COLORED / CUSTOM BLENDS

CLEAR + GREEN GRANULES

REPRESENTATIVE RESULTS + APPLICATION GRADE PROFILES

Lahore, Pakistan | ecotech.pet

QUALITY POSITIONING

Consistent material. Transparent data.
Lot-specific verification available for qualified orders.

Premium clear hot-washed rPET flakes

EC-FLK-CL01

ACTUAL ECOTECH PREMIUM CLEAR FLAKES

ONE CLEAR GRADE. MULTIPLE CONVERSION PATHWAYS.

Built around the buyer's application

POST-CONSUMER RPET

CLEAR HOT-WASHED

EXPORT BIG BAGS

Applications for customer evaluation: fiber, nonwoven, PET sheet, thermoforming, PET strap, monofilament, agricultural netting, pelletizing and extrusion.

Polymer, color and UV sorting support buyer-defined purity. Final limits are agreed around the customer's equipment, filtration, process and finished-product requirements.

Representative quality results

Current sample indicators; lot testing and written specifications govern supply.

Property	Representative result	Status
CIELAB L*	70 to 74	Batch range
CIELAB a*	-1.70 to -1.42	Batch range
CIELAB b*	1.50 to 3.00	Batch range
Moisture	0.50 wt%	Sample result
Other-color	0.00% observed	Sample result
pH before / after	7.0 / 7.7	Test condition applies

Particle-size profile

1.0-6.3 mm ~85%

~15%

Flake-size fraction	Weight
12.5 mm or greater	0.00%
10.0 to <12.5 mm	0.00%
6.3 to <10.0 mm	Approx. 15%
1.0 to <6.3 mm	Approx. 85%
<1.0 mm	0.00%
Total	100.00%

Application grade targets

Finalized through sample and customer-line trials.

Application control	Proposed target
Intrinsic viscosity	0.68-0.75 dL/g
Moisture	0.80 wt% max
PVC	50 ppm max
PE + PP	50 ppm max
Other polymers	100 ppm max
Total non-PET	300 ppm max
Bulk density	300 kg/m3 min

Representative data may vary by batch. Final limits, methods, sampling and acceptance criteria are agreed in writing; lot-specific COA available where agreed.

High-purity flakes for food-contact / bottle-to-bottle applications



ILLUSTRATIVE END-USE APPLICATIONS

PET CUPS, PREFORMS AND FOOD TRAYS

Product positioning

High-purity hot-washed rPET flakes supplied for qualification and use within validated food-contact and bottle-to-bottle recycling processes.

Food-contact status depends on controlled input, the exact decontamination process and operating conditions, intended use, destination market and supporting documentation. Hot washing or machinery brand alone is not sufficient.

PROCESS-SPECIFIC VALIDATION AND CUSTOMER APPROVAL REQUIRED

Qualification controls

Control area	Proposed qualification target	Release evidence
Intrinsic viscosity	0.72-0.78 dL/g	Lot COA; agreed IV method
Moisture	0.70 wt% max	Representative result currently 0.50 wt%
PVC	20 ppm max	Validated low-ppm test
PE + PP	25 ppm max	Validated separation test
Other plastics	50 ppm max	Polymer identification
Metal	5 ppm max	Agreed test method
Total non-PET	100 ppm max	Composite purity result
Source control	>=95% previously food-contact PET where required	Documented feedstock records

Documentation pathway

- Controlled input source and batch traceability
- Commercial-line decontamination validation
- Destination-market process reference and use limits
- Customer trials and applicable migration evidence
- Batch-specific Declaration of Compliance or COA where required

Colored flakes. Buyer-defined blends.

CUSTOM SUPPLY



ADVANCED SORTING AND BLENDING CAPABILITY

YOUR PROCESS. YOUR TARGET. OUR SORTING PLATFORM.

Built to your specification

Polymer sorting, color sorting, UV sorting and advanced washing give EcoTech the flexibility to build high-specification material around the buyer's process - from color and blend ratio to purity, particle size and conversion grade.

POLYMER SORTING

COLOR SORTING

UV SORTING

ADVANCED WASHING



GREEN HOT-WASHED FLAKES

Segregated green recycled PET flakes for customer-defined fiber, strapping, sheet, pelletizing and other conversion applications.

SUPPLIED TO BUYER-AGREED SAMPLE AND SPECIFICATION



BLUE HOT-WASHED FLAKES

Blue recycled PET flakes available as a segregated color grade or as a controlled component in a custom buyer blend.

COLOR AND BLEND TARGETS AGREED BEFORE SUPPLY



LOW-WHITENING 95/5 BLEND

A special blend comprising 95% premium clear hot-washed flakes and 5% blue hot-washed flakes.

95% CLEAR + 5% BLUE

Colored and custom-blend variants do not use a universal TDS. Final color, blend and technical targets are agreed with the buyer before supply.

Clear and green rPET granules.

EC-PET-G80



ACTUAL ECOTECH EREMA PELLETIZING LINE



PRODUCT POSITIONING

Clear / natural food-grade rPET granules for qualified packaging applications, with green rPET granules also available to buyer requirements.

Final granule properties require separate sampling and testing. The target table below applies to the proposed clear / natural grade, not the green variant.

Proposed clear / natural food-grade profile

Targets are finalized by application, market requirements, trial and batch COA before being stated as guaranteed sales limits.

Property	Proposed grade target	Suggested verification
Intrinsic viscosity	0.80 +/- 0.02 dL/g	ASTM D4603-derived / ISO 1628-5
Moisture - as packed	0.20 wt% max	Karl Fischer / agreed method
Residual acetaldehyde	1.0 ppm max	ASTM F2013
Melting point	247-250 deg C target	DSC
Crystallinity	50% min	DSC / declared method
Color L*	70 min	CIELAB on pellets
Color a*	-2 to +2	CIELAB on pellets
Color b*	-3 to +2	CIELAB on pellets
Fines	0.10 wt% max	Sieve / internal method
Ash	0.05 wt% max	ASTM D5630

Documented credentials. Lot-level transparency.

GRS scope certificate



VALID TO 03 MARCH 2027 | SC CU1490953GRS-2026-00022345

CERTIFIED SCOPE

Global Recycled Standard

Scope covers 100% recycled post-consumer PET flakes and washing/laundrying at the certified Lahore facility. A valid Transaction Certificate is required for shipments sold as GRS certified.



HALAL MANAGEMENT SYSTEM

ACTS | HC/EI-376-P/PAK

Valid to 02 November 2026



ENVIRONMENTAL APPROVAL

PAKISTAN ENVIRONMENTAL APPROVAL

Scope and conditions apply



9001:2015

QUALITY MANAGEMENT

9K25344-0201A



14001:2015

ENVIRONMENTAL MANAGEMENT

14K25344-0202A



45001:2018

HEALTH AND SAFETY

45K25344-0203A



ECOTECH IND PVT. LTD. | LAHORE, PAKISTAN

Request samples, a technical review or a lot-specific COA.

sales@ecotech.pet | export@ecotech.pet | salman@ecotech.pet | +92 324 900 1800 | ecotech.pet

