

Recycled PET (rPET) Flakes – Food Grade TDS

Re-Plastic Global

TECHNICAL DATA SHEET (TDS)

Recycled PET (rPET) Flakes – Food Grade

1. Product Introduction

Food Grade Recycled PET (rPET) Flakes are produced from selected post-consumer PET bottles through a strict controlled process including sorting, hot washing, multi-stage rinsing, and high-level purification.

This grade is specifically designed for food-contact and high-purity applications, meeting stricter requirements on contamination control, heavy metals, and intrinsic viscosity stability.

Food Grade rPET Flakes are widely used in:

- Bottle-to-bottle recycling (B2B applications)
 - Food packaging materials
 - Beverage containers
 - Thermoforming sheets for food trays
 - High-end packaging applications
 - FMCG packaging materials
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2. Product Specification

Item	Index
Material	Recycled Polyethylene Terephthalate (rPET)
Grade	Food Grade
Intrinsic Viscosity (IV)	0.72 – 0.82 dL/g
Moisture Content	≤ 0.30 %
PVC Content	≤ 20 ppm
Metal Content (Fe, Al, Cu total)	≤ 5 ppm
Ash Content	≤ 0.10 %
Bulk Density	320 – 420 kg/m ³
Color Type	Hot Washed Clear (High Transparency)
Particle Size	8 – 14 mm
Contamination	≤ 0.02 – 0.03 %

3. Packaging

Packaging Type	Specification	Loading Capacity (40HQ)
Jumbo Bag	1000 kg/bag	24 – 26 MTS
PP Woven Bag	25 kg/bag	18 – 20 MTS

Packaging can be customized according to customer requirements.

4. Storage & Handling

Store in a clean, dry, and contamination-free warehouse environment.

Avoid contact with PVC, other polymers, moisture, and foreign materials.

Maintain sealed storage conditions to ensure compliance with food-contact grade requirements.

5. Manufacturer / Supplier Information

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6. Disclaimer

The information provided in this Technical Data Sheet is based on our current knowledge and experience. It is intended to describe the product for general guidance only and does not constitute a guarantee of specific properties. Compliance with food-contact regulations may vary by region and end-use application.