

# Recycled PET (rPET) Flakes – General Specification TDS

**Re-Plastic Global**

## TECHNICAL DATA SHEET (TDS)

### Recycled PET (rPET) Flakes – General Specification

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#### 1. Product Introduction

Recycled PET (rPET) Flakes are produced from post-consumer PET bottles through a controlled process of sorting, crushing, hot washing, rinsing, and drying.

The material is a sustainable raw material widely used in polyester fiber production, PET sheet extrusion, strapping band manufacturing, and bottle-to-bottle recycling applications.

Our rPET Flakes are available in different grades depending on feedstock quality and sorting process, including:

- Hot Washed Clear Flakes
- Blue & White Flakes
- Green Flakes

rPET Flakes are widely used in:

- Polyester staple fiber (PSF)
  - PET sheets and thermoforming products
  - PET strapping bands
  - Non-woven fabrics
  - Bottle-to-bottle recycling (food-grade applications)
  - Textile and industrial applications
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#### 2. Product Specification

| Item                             | Index                                         |
|----------------------------------|-----------------------------------------------|
| Material                         | Recycled Polyethylene Terephthalate (rPET)    |
| Intrinsic Viscosity (IV)         | 0.70 – 0.84 dL/g                              |
| Moisture Content                 | ≤ 0.50 %                                      |
| PVC Content                      | ≤ 30 ppm                                      |
| Metal Content (Fe, Al, Cu total) | ≤ 10 ppm                                      |
| Ash Content                      | ≤ 0.30 %                                      |
| Bulk Density                     | 250 – 400 kg/m <sup>3</sup>                   |
| Color Type                       | Hot Washed Clear / Blue & White / Green       |
| Particle Size                    | 8 – 14 mm                                     |
| Contamination                    | Clear / Blue & White ≤ 0.05%<br>Green ≤ 0.10% |

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### 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.

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### 4. Storage & Handling

Store in a cool, dry, and well-ventilated warehouse.

Avoid exposure to moisture, direct sunlight, and foreign material contamination.

Keep away from heat sources and chemical contamination to maintain material stability and processing performance.

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### 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.