

# rPET QUALITY GRADING

THE ANALYSIS SERVICE TO KEEP YOU AHEAD OF THE CURVE

1

## Specific Calibration:

Are you getting what you expect?

2

## Processing Differences:

What adjustments need to be made?

3

## Part Quality:

What is the expected visual quality of the part?

### Like Virgin

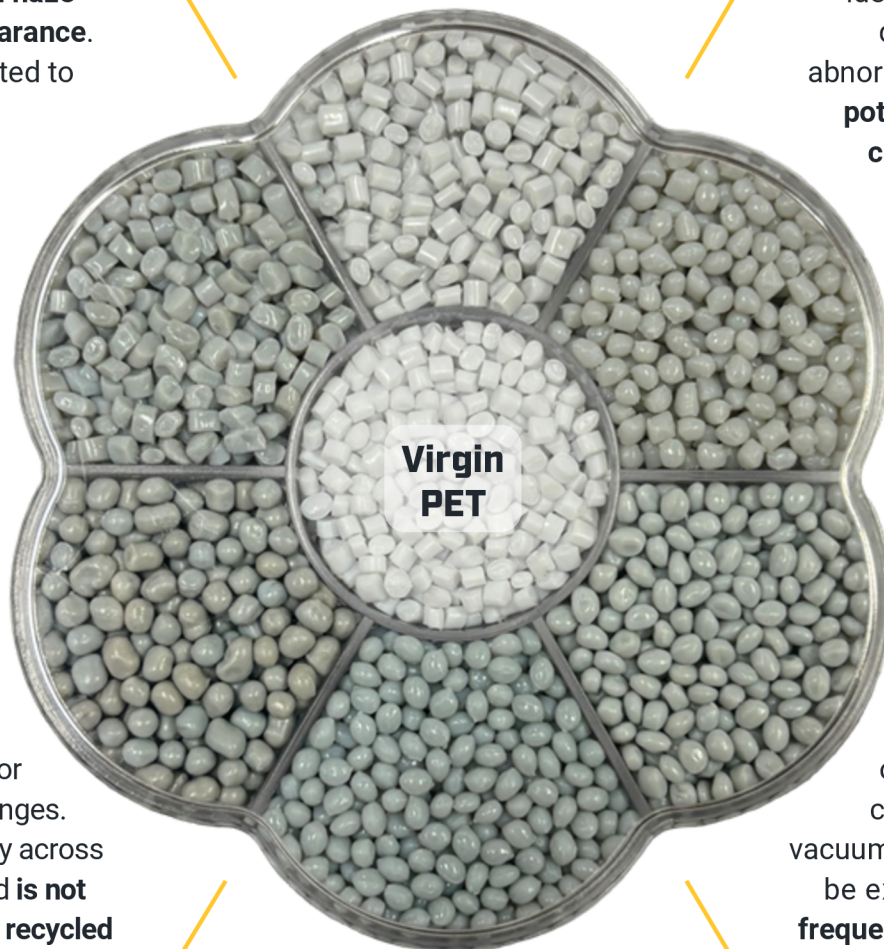
This resin can be **processed identically to that of virgin PET**. The manufacturer correctly specified the material properties within tolerance. **Appearance will be clear and nearly virgin.**

### 35% Haze

Solid contamination is high yielding a part with **high haze and a dark yellow appearance**. This resin is also expected to **clump at typical drying temperatures**. Once in the injection molding system the material is not expected to impact the injection molding process.

### 155°C Drying

rPET quality grading identified the recommended drying temperature to be abnormally low. There is a **high potential for downtime from clumping** in the dryer, or in the extruder feed throat from stoppages. Parts are expected to be **hazy and yellow** in colour.



Virgin  
PET

### Large Pellet

Characterized by a **larger than typical pellet** size, this rPET is at risk for extrusion process challenges. It is generally poor quality across many characteristics and **is not recommended for 100% recycled content**. The larger size creates a risk of processing challenges that may also be present when blending with virgin PET.

### High Dust

Fines and dust can create challenges with operation and part quality concerns. Filters in air and vacuum handling equipment can be expected to **require more frequent changing**. Additionally, parts may exhibit more **black specks** which can impact optical quality of the part.

### AA >2ppm

AA in the resin measured higher than the <1ppm specified by producer. **High AA is a risk for water applications**. Lower drying temperature will also be required due to the **risk of clumping**. Parts expected to be yellow.

**HUSKY®**

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**Large Pellet**

**High Dust**

**AA >2ppm**