rPET Aesthetic Impacts

**Color Variation**
is less noticeable as the preform is blown into the container, as the wall thickness reduces, and thereby lessening the color impact.

**Black Specks**
can also show up as a visual defect. This is caused by contaminants or foreign materials that gets through the process / introduced during the process.
rPET Quality Checklist

Upon Receiving rPET

Check for:

- Acetaldehyde
- Color
- Differential Scanning Calorimetry
- Limonene & Benzene
- Melt Flow Index
- Solution Intrinsic Viscosity

Injection Molding Process

Check for:

- Barrier efficacy
- Color & Haze
- Dimensions
- Drop Impact
- Gate Quality / Crystallinity
- Topload – Empty + Vented
- Visual Inspection

Finished Bottle
rHDPE Color Considerations

What causes yellowing in PCR?

The yellowing we see in recycled HDPE is a result of the heat history, light, oxidation, and contaminants inherent in the recycling stream.
rHDPE Quality Checklist

Upon Receiving rHDPE

Check for:
- Benzene and Limonene
- Color
- Differential Scanning Calorimetry (DSC)
- Melt Flow Index

Extrusion Blow Molding Process

Check for:
- Aesthetic Defects
- Black Specks
- Color & Haze
- Density
- Dimension
- Drop Impact
- Material Distribution
- Stress Cracking
- Top Load, Empty Vented
- Weight

Finished Bottle
rPP Caps and Closures Quality Checklist

Injection Molding of Closures

Check for:
- Barrier Efficacy
- Brittleness
- Color & Haze
- Dimensions
- Drop Impact
- Hinge Functionality Testing
- Top Load
- Visual Inspection

Finished Closure
rPP Injection Molded Containers Quality Checklist

Check for:
- Barrier Efficacy
- Brittleness
- Color & Haze
- Dimensions
- Drop Impact
- Hinge Functionality Testing
- Top Load
- Visual Inspection
Thermoformed Cups and Trays Quality Checklist

Check for:
- Barrier Efficacy
- Brittleness
- Color & Haze
- Dimensions
- Drop Impact
- Hinge Functionality Testing
- I.V. (PET Specific)
- Top Load
- Visual Inspection