**Polyethylene Terephthalate**

**Relpet® G5801**

**Copolymer PET**

### Product description and applications

Relpet® G5801 is bottle grade PET resin manufactured using DuPont's technology.

It is typically used for:
- Various foods, beverages, water etc.
- Containers for FMCG such as cosmetics, hair-oil, disinfectants
- Pharmaceuticals
- APET sheet and PET strapping

### Features

Relpet® G5801 is engineered to provide
- Good processability
- Excellent clarity/gloss
- Properties balanced for wide range of general purpose usages.

### Typical properties of Relpet® G5801 are as follows:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Property</th>
<th>Unit</th>
<th>Value</th>
<th>Range</th>
<th>Equipment / Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intrinsic Viscosity (IV)</td>
<td>dl/g</td>
<td>0.80</td>
<td>± 0.02</td>
<td>Ubbelhode Viscometer / ASTM D 4603 - 03</td>
</tr>
<tr>
<td>2</td>
<td>Acetaldehyde (AA)</td>
<td>ppm</td>
<td>1.0</td>
<td>Max.</td>
<td>Head Space &amp; Gas Chromatography / QAF-PCL-3.413</td>
</tr>
<tr>
<td>3</td>
<td>Colour b*</td>
<td>CIE</td>
<td>0 to –3.</td>
<td>-</td>
<td>Hunterlab / QAF-PCL-3.211</td>
</tr>
<tr>
<td>4</td>
<td>Crystallinity</td>
<td>%</td>
<td>50</td>
<td>Min.</td>
<td>Density Gradient Column / QAF-PCL-3.415</td>
</tr>
<tr>
<td>5</td>
<td>Chips /g</td>
<td>No.</td>
<td>68</td>
<td>± 5</td>
<td>Weightment method / QAF-PCL-3.408</td>
</tr>
<tr>
<td>6</td>
<td>Fines</td>
<td>ppm</td>
<td>100</td>
<td>Max</td>
<td>Sieve Shaker / QAF-PCL-3.407</td>
</tr>
</tbody>
</table>

### Certifications

Relpet® G5801 resin is considered safe for food-packaging applications based on compliance with FDA regulation 21 CFR Section 177.1630 and other similar food contact safety regulations, manufactured as per ISO 22000 certified system (FSMS). Relpet® is the registered trademark of Reliance Industries Limited for its brand of Polyethylene Terephthalate resin.

RIL’s Hazira PET resin test methods (Sl # 1 to 4) are accredited as per National Accreditation Board for Testing & Calibration Laboratories India with certificate numbers T-0797&T-0798

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