



Reliance Industries Limited

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|-----------------------------------|----------------------|
| <b>Polyethylene Terephthalate</b> |                      |
| <b>Relpet<sup>®</sup> G5801</b>   | <b>Copolymer PET</b> |

**Product description and applications**

Relpet<sup>®</sup> 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<sup>®</sup> G5801 is engineered to provide

- Good processability
- Excellent clarity/gloss
- Properties balanced for wide range of general purpose usages.

Typical properties of Relpet<sup>®</sup> G5801 are as follows:

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

**Certifications**

Relpet<sup>®</sup> 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<sup>®</sup> 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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