



Reliance Industries Limited

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| Polyethylene Terephthalate | |
| Relpet® G5841 | Copolymer PET |

Product description and applications

Relpet® G5841 is bottle grade PET resin manufactured using Du Pont’s technology.

It is typically used for:

- Aerated drinks.
- Agro chemicals
- APET sheet and PET strapping

Features

Relpet® G5841 is engineered to provide:

- Good process ability
- Excellent clarity/gloss
- Very Good mechanicals

Typical properties Relpet® G5841 are as follows:

| Sl. No. | Property | Unit | Value | Range | Equipment / Test method |
|---------|--------------------------|------|----------|--------|---|
| 1 | Intrinsic Viscosity (IV) | dl/g | 0.84 | ± 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® G5841 resin is considered safe for food-packaging applications based on compliance with FDA regulation 21 CFR Section 177.1630 & 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