



Reliance Industries Limited

Polyethylene Terephthalate

Relpet® QH5821

Copolymer PET

Product description and applications

Relpet® QH5821 is a fast reheat type bottle grade PET resin manufactured using Du Pont's technology.

It is widely used for aerated drinks.

Features

This grade is engineered for enhanced energy absorption which can result in increased output or reduced heating load and better process flexibility during blowing.

Typical properties of Relpet® QH5821 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	-3.0 to -5.0	-	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® QH5821 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 (SI # 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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