

Polyclear® Refresh™ PET 1101

Product Description

Polyclear® Refresh™ PET 1101 is a copolymer packaging resin with a nominal intrinsic viscosity of 0.83 dl/g. Packaging made from Polyclear® Refresh™ PET 1101 has excellent clarity and is noted for its dimensional stability, which prevents shrinkage and expansion of the container. Polyclear® Refresh™ PET 1101 is used successfully in carbonated soft drink bottles and other applications such as water bottles, food containers, and packaging for household goods.

This polymer complies with the Federal Food, Drug, and Cosmetic Act for certain food contact applications. Please contact INVISTA for specific FDA clearances.

Polyclear® Refresh™ PET 1101 offers excellent performance in maximum throughput, stretch-blow molding applications. Preforms made from Polyclear® Refresh™ PET 1101 allow maximum blowing throughputs by quickly heating in the infrared (IR) ovens. In addition, bottles made from Polyclear® Refresh™ PET 1101 are low-stick, which eases handling issues.

Containers made from INVISTA PET are lightweight, have excellent clarity, and are shatterproof. With the important advantage of being totally recyclable, PET is the packaging material of choice.

Property	Value	Test Method
General		
Intrinsic Viscosity*	0.83 ± 0.02	WI No. 104*
Melting Point (°C)	252 Maximum	DSC**
Carboxyl End Groups (meq/kg)	35 Maximum	Titration**
Diethylene Glycol Content (wt%)	1.8 Maximum	Gas Chromatography**
Acetaldehyde Content (ppm)	2.0 Maximum	Gas Chromatography**
Density (g/ cm ³)	1.39 Minimum	Pycnometer
Fines (%)	0.05 (through 28 mesh)	Gravimetric determination as manufactured
Moisture Content (%)	0.1 Maximum	Karl Fisher Titration as manufactured
Crystallinity (%)	50 Minimum	Pycnometer
Bulk Density (packed) lb/ ft ³	52 Minimum	***
Chip Size (grams / 100 chips)	2.0 Maximum	

* Determined by conversion of solution viscosity to intrinsic viscosity using an empirical correlation developed by INVISTA equivalent to ASTM method D-4603.

** Internal method

*** Not equivalent to bulk density found with fully packed, larger quantities.

**Product Data Sheet
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