

Indorama Auriga Polymers Polyclear®, Perserve 2201 PET Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Unreinforced

Material Notes:

Description: Polyclear® Preserve PET 2201 is designed to offer exceptional performance in hot-fill and pasteurized container applications. It has a nominal intrinsic viscosity of 0.82 dl/g. Packaging made from Polyclear® Preserve PET 2201 has excellent clarity and is noted for its dimensional stability, which prevents shrinkage and expansion of the container, even after post-fill heat treatment. Polyclear® Preserve PET 2201 is used successfully in heat-set hot-fill bottles for juice, teas, sports drinks, and foods. Polyclear® Preserve PET 2201 is also used successfully in pasteurized bottles for beer, flavored alcoholic beverages, and other carbonated beverages. This polymer complies with the Federal Food, Drug, and Cosmetic Act for certain food contact applications. Please contact Auriga Polymers Inc. for specific FDA clearances. Containers made from Auriga Polymers Inc. PET are lightweight, have excellent clarity, and are shatterproof. With the important advantage of being totally recyclable, PET is becoming the packaging material of choice.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indorama-Auriga-Polymers-Polyclear-Perserve-2201-PET-Resin.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---------------------------|-------------------------------|--|
| Bulk Density | $\geq 0.801 \text{ g/cc}$ | $\geq 0.0289 \text{ lb/in}^3$ | |
| Density | $\geq 1.39 \text{ g/cc}$ | $\geq 0.0502 \text{ lb/in}^3$ | Pycnometer |
| Particle Mesh Size | 28 Mesh | 28 Mesh | 0.05% through; Gravimetric determination as manufactured |
| Viscosity Measurement | 0.80 - 0.84 | 0.80 - 0.84 | Intrinsic; 1% Solution in Dichloroacetic Acid |
| Crystallinity | $\geq 50 \%$ | $\geq 50 \%$ | Pycnometer |

| Thermal Properties | Metric | English | Comments |
|--------------------|-----------------------------------|-----------------------------------|----------|
| Melting Point | $\leq 252 \text{ }^\circ\text{C}$ | $\leq 486 \text{ }^\circ\text{F}$ | DSC |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|---------------------------------|
| Transmission, Visible | 90 % | 90 % | clear; thickness not quantified |

| Chemical Properties | Metric | English | Comments |
|---------------------|--------------------------|--------------------------|--------------------|
| Acetaldehyde | $\leq 2.00 \text{ ppm}$ | $\leq 2.00 \text{ ppm}$ | Gas Chromatography |
| Diethylene Glycol | $\leq 1.8 \%$ | $\leq 1.8 \%$ | Gas Chromatography |
| Carboxyl End Groups | $\leq 45 \text{ meq/kg}$ | $\leq 45 \text{ meq/kg}$ | Titration |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|----------------|---------------------------------------|
| Moisture Content | $\leq 0.10 \%$ | $\leq 0.10 \%$ | Karl Fisher Titration as manufactured |

| Processing Properties | Metric | English | Comments |
|------------------------|-----------------------|---------------------------------|----------|
| Descriptive Properties | Value | Comments | |
| Chip Size | < 2.2 grams/100 chips | | |
| Process | Blow Molding | | |
| | Injection Molding | | |
| Region | US & Canada | Bamberger Polymers Distribution | |

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