

Auriga Polymers Inc.

Polyclear® EBM PET 5505

High Melt Strength Copolymer for Extrusion Blow Molding

Product Description

Polyclear® EBM PET 5505 is a co-polyester with high melt strength designed for extrusion blow molding and suited to produce clear, high-gloss containers with and without handles that can be recycled with clear PET.

Polyclear® EBM PET 5505 is a true semi-crystalline PET polymer that exhibits high melt strength and slow crystallization to allow for processing on typical extrusion blow molding equipment when adapted for handling PET. Polyclear® EBM PET 5505 exhibits a typical T_G and a high melt point and processes similar to standard PET. Therefore, containers made from Polyclear® EBM PET 5505 can carry the resin identification code “PETE 1”.

In addition, containers made from Polyclear® EBM PET 5505 can be recycled with the clear PET stream. Auriga Polymers Inc. has obtained a letter of recognition from the Association of Plastic Recyclers (APR) stating that Polyclear® EBM PET 5505 meets or exceeds the critical guidance requirements for recycling with clear PET.

High-gloss, clear containers made from Polyclear® EBM PET via extrusion blow molding are ideal for packaging juice, sports drinks, tea, edible oil, household cleaners, detergents, chemicals and automotive products and can replace containers made from other materials for extrusion blow molding such as PETG, PVC, PP, PC and HDPE.

Polyclear® EBM PET 5505 complies with the Federal Food, Drug, and Cosmetic Act for all food packaging applications and certain processing conditions. Letters detailing specific FDA clearances are available upon request from Auriga Polymers Inc.

Property	Typical Value	Test Method
Intrinsic Viscosity*	1.01 ± 0.03	1% Solution in Dichloroacetic Acid*
Melting Point (°C)	240° C. maximum	DSC**
Acetaldehyde Content (ppm)	2.0 maximum	Gas Chromatography*
Color L*	80 minimum	Hunter Colorimeter
Color b*	1.5 maximum	Hunter Colorimeter
Density (g/ cm ³)	1.39 minimum	Pycnometer
Fines (%)	0.05 (through 25 mesh)	Gravimetric
Moisture Content (%)	0.1 maximum	Karl Fisher Titration
Bulk Density (packed) lb/ ft ³	52 minimum	***
Chip Size (grams / 100 chips)	2.0 maximum	

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- * Determined by conversion of solution viscosity to intrinsic viscosity using an empirical correlation developed by Auriga Polymers Inc. equivalent to ASTM method D-4603.
 - ** Internal method
 - *** Not equivalent to bulk density found with fully packed, larger quantities.
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Polyclear® is a registered trademark of Indorama Ventures PCL.

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**Product Data Sheet
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