

Developmental Product Preliminary Data Sheet

PolyClear® AERO PET 5605

A Modified Co-polymer for Improved Dimensional Stability

Product Description

PolyClear® AERO PET 5605 is modified co-polyester with higher melt strength and chemical resistance designed to produce clear, high-gloss containers with improved dimensional, thermal and chemical stability and that can be recycled with clear PET.

Containers made via injection reheat stretch blow molding from PolyClear® AERO PET 5605 are, in particular, suited to package more aggressive liquids such as air fresheners, hair dyes and alkaline chemicals, as well as for higher internal pressure and temperature applications such as Aerosols.

Containers made from PolyClear® AERO PET 5605 can carry the resin identification code "PETE 1" and 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® AERO PET 5605 meets or exceeds the critical guidance requirements for recycling with clear PET.

PolyClear® AERO PET 5605 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 (dl/g)*	0.90 ± 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 (%)****	0.15 maximum	Karl Fisher Titration
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 Auriga Polymers Inc. equivalent to ASTM method D-4603.		
** Internal method		
*** Not equivalent to bulk density found with fully packed, larger quantities.		
**** As produced		

Polyclear® is a registered trademark of Indorama Ventures PCL.

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**Product Data Sheet
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