Pinnacle PP 6135C3

Pinnacle Polymers - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

35 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 6135C3 is made via UNIPOL™ PP technology, which utilizes gas-phase fluidized bed reactors with a high activity catalyst system to ensure uniform physical properties and lot-to-lot consistency.

This product is intended for injection molding applications that require more stiffness, faster cycle time, low bloom, improved color, enhanced processability and excellent clarity. This product was produced using no organic peroxides. This product contains a new generation clarifier.

The 6135C3 product provides:

- Improved FDA food contact status
- Reduced cycle-time
- Excellent organoleptics
- Increased stiffness
- Low bloom
- Excellent impact resistance

Pinnacle 6135C3 as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form is cleared by way of FCN 1538 for use in single- and repeated-use articles intended to contact all types of food under the Food and Drug Administration's (FDA) Conditions of Use A through H. FDA has not evaluated the use of this product in contact with infant formula or breast milk.

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Clarifier		
Features	• Excellent Organoleptic Properties • Fast Molding Cycle • Food Contact Acceptable	• Good Processability • High Clarity • High Impact Resistance	• Low Blooming • Random Copolymer
Agency Ratings	• FDA Food Contact, Unspecified Rating		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.016	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, 0.126 in, Injection Molded)	4310	psi	ASTM D638
Tensile Elongation [2] (Yield, 0.126 in, Injection Molded)	14	%	ASTM D638
Flexural Modulus - 1% Secant [3] (0.126 in, Injection Molded)	165000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [4] (73°F, 0.126 in, Injection Molded)	0.99	ft·lb/in	ASTM D256
Notched Izod Impact (Area) [4]			ASTM D256
73°F, 0.126 in, Injection Molded	2.47	ft·lb/in²	

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	174	°F	ASTM D648

Optical	Nominal Value	Unit
Haze (50.0 mil)	9.00	%
Yellowness Index	< -10	YI

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Type I, 2.0 in/min

[3] Type I, 0.050 in/min

[4] Type I