Pinnacle PP 6180C3

Pinnacle Polymers - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

80 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 6180C3 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 high melt flow, more stiffness, faster cycle time, low bloom, enhanced processability and excellent clarity. This product contains a new generation clarifier.

The 6180C3 product provides:

- Improved FDA food contact status
- Low bloom
- High melt flow, excellent processability
- Increased stiffness
- Reduced cycle-time
- Improved color
- Increased stiffness

Pinnacle 6180C3 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	• Fast Molding Cycle • Food Contact Acceptable • Good Processability	• High Clarity • High Flow • 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)	80	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.015	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, 0.126 in, Injection Molded)	4100	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)	160000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [4] (73°F, 0.126 in, Injection Molded)	0.90	ft·lb/in	ASTM D256
Notched Izod Impact (Area) [4]			ASTM D256
73°F, 0.126 in, Injection Molded	2.24	ft·lb/in²	

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	172	°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