



Pinnacle PP 5112C3

Pinnacle Polymers - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

12 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 5112C3 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 low melt flow, fast cycle time, enhanced processability and excellent clarity. This product also has improved impact resistance and a new generation clarifier.

The 5112C3 product provides:

- Improved FDA food contact status
- New generation clarifier
- Improved color
- Excellent impact resistance

Pinnacle 5112C3 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 • High Clarity • Food Contact Acceptable • High Impact Resistance • 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/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	12	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)	4100	psi	ASTM D638
Tensile Elongation ² (Yield, 0.126 in, Injection Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant ³ (0.126 in, Injection Molded)	155000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (73°F, 0.126 in, Injection Molded)	2.8	ft-lb/in	ASTM D256
Notched Izod Impact (Area) ⁴ 73°F, 0.126 in, Injection Molded	7.14	ft-lb/in ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	165	°F	ASTM D648

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Optical	Nominal Value	Unit
Haze (50.0 mil)	9.00	%
Yellowness Index	< -5.0	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