

Pinnacle PP 5112C3

Polypropylene Random Copolymer

Pinnacle Polymers

Message:

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:

- New generation clarifier
- Improved color
- Excellent impact resistance
- Low melt flow, excellent processability

Pinnacle's polypropylene, as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form complies with appropriate requirements of CFR Title 21, Part 177, Subpart B, Section 177.1520 (c) 3.1a entitled "Olefin Polymers" of the Food Additives Amendment of 1958 to the United States Food, Drug and Cosmetic Act of 1938.

General Information			
Additive	Clarifier		
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Processability		
	High Clarity		
	High Impact Resistance		
	Low Flow		
	Random Copolymer		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.6	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	28.3	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant ³ (3.20 mm, Injection Molded)	1070	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C, 3.20 mm, Injection Molded)	150	J/m	ASTM D256

Notched Izod Impact (Area) ⁵ (23°C, 3.20 mm, Injection Molded)	15.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Optical	Nominal Value	Unit	
Haze (1270 μm)	9.0	%	
Yellowness Index	< -5.0	YI	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 1.3 mm/min		
4.	Type I		
5.	Type I		

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