

# Pinnacle PP 5110H

Polypropylene Random Copolymer

Pinnacle Polymers

## Message:

10 MELT FLOW RANDOM COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 5110H 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 general purpose injection molding applications. This product contains a nucleation and antistatic additive package.

The 5110H product provides:

- Superior color and processing stability
- Low odor
- Good flow and set-up behavior
- Antistatic properties
- Excellent lot-to-lot consistency

Pinnacle's polypropylene, as marketed by Pinnacle Polymers, 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	Antistatic  Nucleating Agent		
Features	Antistatic  Food Contact Acceptable  Good Color Stability  Good Flow  Good Processing Stability  Low to No Odor  Nucleated  Random Copolymer		
Uses	General Purpose		
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 <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 3.20 mm, Injection Molded)	28.3	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 3.20 mm, Injection Molded)	12	%	ASTM D638

Flexural Modulus - 1% Secant <sup>3</sup> (3.20 mm, Injection Molded)	945	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	59	J/m	ASTM D256
Notched Izod Impact (Area) <sup>5</sup> (23°C, 3.20 mm, Injection Molded)	5.20	kJ/m <sup>2</sup>	ASTM D256
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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