



Pinnacle PP 1120 Z

Pinnacle Polymers - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

22 MELT FLOW HOMOPOLYMER POLYPROPYLENE WITH ANTISTAT AND NUCLEATION FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 1120 Z 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 molding of cutlery, closures, thin wall containers and other consumer products. 1120 Z contains both a nucleation and antistatic additive system.

The 1120 Z product provides:

- Superior stiffness
- Good static charge dissipation
- High speed processing: very fast cycle time
- Excellent mold release

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) 1.1a entitled "Olefin Polymers" of the Food Additives Amendment of 1958 to the United States Food, Drug and Cosmetic Act of 1938.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Antistatic	• Nucleating Agent	
Features	• Antistatic • Fast Molding Cycle • Food Contact Acceptable	• Good Mold Release • Good Stiffness • Homopolymer	• Nucleated
Uses	• Closures	• Consumer Applications	• Thin-walled Containers
Agency Ratings	• FDA 21 CFR 177.1520(c) 1.1a		
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)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.013	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 0.126 in, Injection Molded)	5800	psi	ASTM D638
Tensile Elongation ² (Yield, 0.126 in, Injection Molded)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (0.126 in, Injection Molded)	290000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (73°F, 0.126 in, Injection Molded)	0.60	ft-lb/in	ASTM D256
Notched Izod Impact (Area) ⁴ 73°F, 0.126 in, Injection Molded	1.48	ft-lb/in ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	268	°F	ASTM D648

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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