



Pinnacle PP 1345Z

Pinnacle Polymers - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

45 MELT FLOW HOMOPOLYMER POLYPROPYLENE WITH NUCLEATOR AND ANTISTAT FOR THIN WALL INJECTION MOLDING

Pinnacle Polymers Polypropylene 1345Z 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 thin-wall injection molded applications including closures, food containers and miscellaneous consumer products applications that require high stiffness.

The 1345Z product provides:

- Superior set-up behavior
- Excellent color and processing stability
- Low odor and taste
- Excellent flow characteristics
- High stiffness
- Nucleation and antistat

This product, 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) 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	• Good Processing Stability	
	• Food Contact Acceptable	• High Stiffness	• Low to No Taste
	• Good Color Stability	• Homopolymer	• Nucleated
	• Good Flow	• Low Odor	
Uses	• Closures	• Food Containers	
	• Consumer Applications	• Thin-walled Parts	
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)	45	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 0.126 in, Injection Molded)	5700	psi	ASTM D638
Tensile Elongation ² (Yield, 0.126 in, Injection Molded)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (0.126 in, Injection Molded)	280000	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

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Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) ⁴ 73°F, 0.126 in, Injection Molded	1.43	ft·lb/in ²	ASTM D256

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