



Pinnacle PP 1403N

Pinnacle Polymers - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

3.5 MELT FLOW CLARIFIED HOMOPOLYMER FOR THERMOFORMING APPLICATIONS

Pinnacle Polymers Polypropylene 1403N 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 extruded sheet and thermoforming applications. The combination of flow characteristics and high stiffness provide light-weighting potential for containers. 1403N contains a clarifier providing excellent see-through clarity.

The 1403N product provides:

- Superior color and processing stability
- Good melt strength and stretchability
- High clarity
- Low level of extractables

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) 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	• Experimental: Active		
Availability	• Europe	• North America	
Additive	• Clarifier		
Features	• Food Contact Acceptable	• Good Processing Stability	• High Stiffness
	• Good Color Stability	• Good Stretchability	• Homopolymer
	• Good Melt Strength	• High Clarity	• Low Extractables
Uses	• Containers	• Sheet	• Thermoforming Applications
Agency Ratings	• FDA 21 CFR 177.1520(c) 1.1a		
Forms	• Pellets		
Processing Method	• Sheet Extrusion	• Thermoforming	

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)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.017	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 0.126 in, Injection Molded)	5600	psi	ASTM D638
Tensile Elongation ² (Yield, 0.126 in, Injection Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant ³ (0.126 in, Injection Molded)	275000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (73°F, 0.126 in, Injection Molded)	0.90	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	253	°F	ASTM D648
Optical	Nominal Value	Unit	
Haze (50.0 mil)	25.0	%	

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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