



Pinnacle PP 1403C3

Pinnacle Polymers - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

3 MELT FLOW CLARIFIED HOMOPOLYMER FOR THERMOFORMING APPLICATIONS

Pinnacle Polymers Polypropylene 1403C3 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 requiring good see-through clarity. Contains new technology clarifier for superior clarity.

The 1403C3 product provides:

- Superior clarity
- Good melt strength and stretchability
- Superior color and processing stability
- Excellent cleanliness

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	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Clarifier		
Features	• Clean/High Purity • Food Contact Acceptable • Good Color Stability	• Good Melt Strength • Good Processing Stability • Good Stretchability	• High Clarity • Homopolymer
Uses	• 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)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.019	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 0.126 in, Injection Molded)	5950	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)	310000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (73°F, 0.126 in, Injection Molded)	0.45	ft·lb/in	ASTM D256
Notched Izod Impact (Area) ⁴			ASTM D256
73°F, 0.126 in, Injection Molded	1.14	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	234	°F	ASTM D648

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Optical	Nominal Value	Unit
Haze (50.0 mil)	9.00	%

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