

Pinnacle PP 1403C3

Polypropylene Homopolymer

Pinnacle Polymers

Message:

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 Information	
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

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.9	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	41.0	MPa	ASTM D638

Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (3.20 mm, Injection Molded)	2140	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C, 3.20 mm, Injection Molded)	24	J/m	ASTM D256
Notched Izod Impact (Area) ⁵ (23°C, 3.20 mm, Injection Molded)	2.40	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	112	°C	ASTM D648
Optical	Nominal Value	Unit	
Haze (1270 µm)	9.0	%	
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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