

# Pinnacle PP 1403N

Polypropylene Homopolymer

Pinnacle Polymers

## Message:

### 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 Information			
Additive	Clarifier		
Features	Food Contact Acceptable		
	Good Color Stability		
	Good Melt Strength		
	Good Processing Stability		
	Good Stretchability		
	High Clarity		
	High Stiffness		
	Homopolymer		
	Low Extractables		
Uses	Containers		
	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 <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.7	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 3.20 mm, Injection Molded)	38.6	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 3.20 mm, Injection Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (3.20 mm, Injection Molded)	1900	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	123	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze (1270 μm)	25	%	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 1.3 mm/min		
4.	Type I		

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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