

1403N

DEVELOPMENTAL DATA**

3.5 MELT FLOW CLARIFIED HOMOPOLYMER FOR THERMOFORMING APPLICATIONS

Product Description and 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.

Features:

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.

Typical Properties **

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	3.5 g/10 min.	3.5 g/10 min.	D1238 ¹
Density at 23°C	0.9 g/cm ³	900 kg/m ³	D1505
Tensile yield strength, at 51 mm/min	5600 psi	38.6 MPa	D638 ²
Yield elongation, at 51 mm/min	12%	12%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	275,000 psi	1897 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	0.9 ft-lb/in	48 J/m	D256 ²
Heat Deflection Temperature at 0.455 MPa (66psi)	253°F	123°C	D648
Shrinkage	0.017 in/in	0.017 mm/mm	D955
Haze (1.27 MM Plaque)	25%	25%	

¹Condition L 230/2.16

²ASTM Type I specimen, 3.2 mm thick (injection molded per ASTM D4101-92a) UNIPOL is a trademark of Union Carbide Corporation

**Developmental data - A statistically valid sample size does not exist to determine the average physical properties. These data may change as additional results become available.

Technical data contained herein is furnished without fee or obligation, and is given and accepted at recipient's sole risk. Since conditions of use may vary and are beyond our control, Pinnacle Polymers makes no representation about and is not responsible or liable for the accuracy or reliability of data, nor for toxicological effects, industrial hygiene requirements, or other matters associated with particular application of any product described herein. Pinnacle Polymers disclaims any warranty, expressed or implied, regarding the information contained herein, including the implied warranty of merchantability of fitness for a particular purpose. 090814