



## Pinnacle PP 1112

### Pinnacle Polymers - Polypropylene Homopolymer

Tuesday, November 5, 2019

#### General Information

##### Product Description

12 MELT FLOW HOMOPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 1112 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 general-purpose injection molding such as resin furniture, closures, and consumer product applications.

The 1112 product provides:

- Excellent color and processing stability
- Good flow characteristics
- Excellent organoleptic properties
- UL Listed

Pinnacle's polypropylene, as marketed by Pinnacle Polymers, 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	• North America		
Features	• Excellent Organoleptic Properties • Food Contact Acceptable	• Good Color Stability • Good Flow	• Good Processing Stability • Homopolymer
Uses	• Closures • Consumer Applications	• Furniture • General Purpose	
Agency Ratings	• FDA 21 CFR 177.1520(c) 1.1a	• UL Unspecified Rating	
Forms	• Pellets		
Processing Method	• Injection Molding		

#### ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.014	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, 0.126 in, Injection Molded)	5000	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 0.126 in, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (0.126 in, Injection Molded)	240000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>4</sup> (73°F, 0.126 in, Injection Molded)	0.60	ft-lb/in	ASTM D256
Notched Izod Impact (Area) <sup>4</sup> 73°F, 0.126 in, Injection Molded	1.48	ft-lb/in <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	221	°F	ASTM D648

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### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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<sup>2</sup> Type I, 2.0 in/min

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<sup>3</sup> Type I, 0.050 in/min

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<sup>4</sup> Type I