



# Pinnacle PP 8118H

## Pinnacle Polymers - Polypropylene Copolymer

Tuesday, November 5, 2019

### General Information

#### Product Description

18 MELT FLOW HIGH STIFFNESS COPOLYMER POLYPROPYLENE FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 8118H 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 copolymer is intended for use in housewares, consumer products and any application requiring both high stiffness and good impact. Contains nucleator and antistat.

The 8118H product provides:

- High stiffness and good impact strength
- Excellent mold release
- Superior processability
- Excellent lot-to-lot consistency

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) 3.1a 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	• Antistatic • Nucleating Agent
Features	• Antistatic • Good Impact Resistance • High Stiffness • Copolymer • Good Mold Release • Nucleated • Food Contact Acceptable • Good Processability
Uses	• Consumer Applications • Household Goods
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.1a
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)	18	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, 0.126 in, Injection Molded)	4210	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 0.126 in, Injection Molded)	5.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (0.126 in, Injection Molded)	215000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>4</sup> (73°F, 0.126 in, Injection Molded)	1.5	ft-lb/in	ASTM D256
Notched Izod Impact (Area) <sup>4</sup> 73°F, 0.126 in, Injection Molded	3.76	ft-lb/in <sup>2</sup>	ASTM D256
Gardner Impact <sup>5</sup> (-22°F)	37.2	in-lb	ASTM D5420

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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

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<sup>5</sup> Method G, Geometry GC