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## 8118H

### 18 MELT FLOW HIGH STIFFNESS COPOLYMER POLYPROPYLENE FOR INJECTION MOLDING

#### Product Description and Applications:

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.

#### Features:

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.

### Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	18 g/10 min.	18 g/10 min.	D1238 <sup>1</sup>
Density at 23°C	0.9 g/cm <sup>3</sup>	900 kg/m <sup>3</sup>	D1505
Tensile yield strength, at 51 mm/min	4200 psi	29 MPa	D638 <sup>2</sup>
Yield elongation, at 51 mm/min	5%	5%	D638 <sup>2</sup>
Flexural modulus (1% secant) at 1.27 mm/min	215,000 psi	1482 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	1.5 ft-lb/in	80 J/m 7.9 kJ/m <sup>2</sup>	D256 <sup>2</sup>
Gardner Impact at -22°F/-30°C	38 in-lb	4.2 J	D5420 <sup>3</sup>

<sup>1</sup>Condition L 230/2.16

<sup>2</sup>ASTM Type I specimen, 3.2 mm thick (injection molded per ASTM D4101-92a)

<sup>3</sup>Method G, Geometry GC

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