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## 8108H (Developmental)

### 8 MELT FLOW HIGH STIFFNESS PP COPOLYMER FOR INJECTION MOLDING

#### Product Description and Applications:

Pinnacle Polymers Polypropylene 8108H 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 consumer and industrial products, and any application requiring high stiffness. Contains nucleator and antistat.

#### Features:

The 8108H product provides:

- High stiffness
- Excellent mold release
- Superior processability

Pinnacle's 8108H polypropylene as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form is covered under US FDA Food Contact Notification 864. As such, this polymer complies with the requirements of CFR Title 21 and can be used in contact with all food types under Conditions of Use A-H.

### Developmental Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	8 g/10 min.	8 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	3800 psi	26 MPa	D638 <sup>2</sup>
Yield elongation, at 51 mm/min	6.5%	6.5%	D638 <sup>2</sup>
Flexural modulus (1% secant) at 1.27 mm/min	205,000 psi	1410 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	3.2 ft-lb/in	171 J/m	D256 <sup>2</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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