

# 4108H Developmental

## 8 MELT FLOW ULTRA HIGH IMPACT PP COPOLYMER FOR INJECTION MOLDING

### Product Description and Applications:

Pinnacle Polymers Polypropylene 4108H 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 is intended for general extrusion or injection molding applications. Has superior high and low temperature impact. Applications include cold weather sports equipment and lawn care.

### Features:

The 4108H product provides:

- Cold temperature impact resistant
- Excellent mold release
- Superior balance of stiffness and impact strength
- Excellent color and processing stability

Pinnacle's 4108H 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.	D12381
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	2980 psi	21 MPa	D6382
Yield elongation, at 51 mm/min	6%	6%	D6382
Flexural modulus (1% secant) at 1.27 mm/min	157,000 psi	1083 MPa	D790A2
Notched Izod impact strength, at 73°/23°C	≥10 ft-lb/in	≥534 J/m	D2562
Notched Izod impact strength at -4°F/-20°C	2.1 ft-lb/in	110 J/m	D2562
Gardner Impact strength at -22°F/-30°C	310 in-lb	34 J	D54203

<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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