

# 2160H

## 65 MELT FLOW IMPACT COPOLYMER FOR INJECTION MOLDING

### Product Description and Applications:

Pinnacle Polymers Polypropylene 2160H 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 controlled rheology copolymer is intended for use in thin wall injection molded packaging, housewares and consumer products applications. High Melt Flow improves cycle-times without forfeiting impact. Contains nucleator and antistat.

### Features:

The 2160H product provides:

- High stiffness
- Excellent impact at 23°C and -30°C
- Very high melt flow
- Excellent mold release
- Superior processability
- Excellent lot-to-lot consistency
- UL Listed

Pinnacle's 2160H 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.

## Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	65 g/10 min.	65 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
Shrinkage	0.013 in/in	0.013 mm/mm	D955
Heat Deflection Temperature at 0.455 MPa (66psi)	240°F	115°C	D648
Tensile yield strength, at 51 mm/min	3900 psi	26.9 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	197,000 psi	1358 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	1.4 ft-lb/in	75 J/m 7.3 kJ/m <sup>2</sup>	D256 <sup>2</sup>
Gardner Impact at -22°F/-30°C	100 in-lb	11 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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FDA and SDS documents are available on our website at: <http://www.pinnaclepolymers.com/datasds.php>

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