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## 8238H

### 38 MELT FLOW HIGH FLEX IMPACT COPOLYMER FOR INJECTION MOLDING

#### Product Description and Applications:

Pinnacle Polymers Polypropylene 8238H 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 product is intended for thin wall injection molding applications. Its high melt flow allows for quick filling of molds. Also designed for use in compounding.

#### Features:

The 8238H product provides:

- High Flexural Modulus
- Superior balance of stiffness and impact strength
- Long Term Heat Stability
- Nucleated
- Fast cycle-time

Pinnacle's 8238H 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	38 g/10 min.	38 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>
Flexural modulus (1% secant) at 1.27 mm/min	213,000 psi	1470 MPa	D790A <sup>2</sup>
Yield Elongation	6%	6%	D638 <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	1.3 ft-lb/in	69 J/m 6.8 kJ/m <sup>2</sup>	D256 <sup>2</sup>
Gardner Impact strength at -22°F/-30°C	36 in-lb	4 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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