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## 4208

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

#### Product Description and Applications:

Pinnacle Polymers Polypropylene 4208 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 general extrusion or injection molding applications. Also contains a long term heat aging additive system. Has superior high and low temperature impact.

#### Features:

The 4208 product provides:

- Wet/Dry environment resistance
- Superior balance of stiffness and impact strength
- Excellent long term heat aging properties
- Excellent color and processing stability
- Enhanced weld-line strength

Pinnacle's 4208 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	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	3400 psi	23.5 MPa	D638 <sup>2</sup>
Yield elongation, at 51 mm/min	10%	10%	D638 <sup>2</sup>
Flexural modulus (1% secant) at 1.27 mm/min	150,000 psi	1035 MPa	D790A <sup>2</sup>
Notched Izod break, at 73°F/23°C	100% No-breaks	100% No-breaks	D256 <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	≥10 ft-lb/in	≥534 J/m	D256 <sup>2</sup>
Gardner Impact strength at -22°F/-30°C	320 in-lb	35.2 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

UNIPOL is a trademark of W. R. Grace and Co.

FDA and SDS documents are available on our website at: <http://www.pinnaclepolymers.com/datasds.php>