



P. O. Drawer E  
 Garyville, LA 70051  
 Tel: (985) 535-2000  
 Fax: (985) 535-1234

# 3208

## 8 MELT FLOW HIGH IMPACT COPOLYMER FOR INJECTION MOLDING

### Product Description and Applications:

Pinnacle Polymers Polypropylene 3208 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 injection molding of automotive and consumer product applications. Also contains a long term heat aging additive system.

### Features:

The 3208 product provides:

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

Pinnacle's 3208 polypropylene is covered under US FDA Food Contact Notification 864. As such, this polymer can be used in contact with all food types under Conditions of Use A-H, as described in 21 CFR 176.170, Tables 1 and 2. This polymer also complies with 21 CFR 177.1520(c), items 3.1(a) and 3.2(a).

### 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
Shrinkage	0.013 in/in	0.013 mm/mm	D955
Heat Deflection Temperature at 0.455 MPa (66psi)	178°F	81°C	D648
Tensile yield strength, at 51 mm/min	3400 psi	23.5 MPa	D638 <sup>2</sup>
Yield elongation, at 51 mm/min	7%	7%	D638 <sup>2</sup>
Flexural modulus (1% secant) at 1.27 mm/min	155,000 psi	1070 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	≥6 ft-lb/in	≥320 J/m ≥31 kJ/m <sup>2</sup>	D256 <sup>2</sup>
Gardner Impact strength at -22°F/-30°C	300 in-lb	33 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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