



## Pinnacle PP 4208

### Pinnacle Polymers - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

#### General Information

##### Product Description

8 MELT FLOW HIGH IMPACT COPOLYMER FOR INJECTION MOLDING

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.

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 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).

#### General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Heat Stabilizer		
Features	• Food Contact Acceptable	• Heat Aging Resistant	• Impact Copolymer
	• Good Color Stability	• Heat Stabilized	• Low Temperature Impact Resistance
	• Good Processing Stability	• High Impact Resistance	• Weldable
Agency Ratings	• FDA 21 CFR 176.170 Table 1 & 2, Cond A-H	• FDA 21 CFR 177.1520(c) 3.1a	• FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

#### ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, 0.126 in, Injection Molded)	3410	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 0.126 in, Injection Molded)	10	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (0.126 in, Injection Molded)	150000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>4</sup> (73°F, 0.126 in, Injection Molded)	> 10	ft-lb/in	ASTM D256
Gardner Impact <sup>5</sup> (-22°F)	312	in-lb	ASTM D5420

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### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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<sup>2</sup> Type I, 2.0 in/min

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<sup>3</sup> Type I, 0.050 in/min

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<sup>4</sup> Type I

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<sup>5</sup> Method G, Geometry GC