

Pinnacle PP 4208

Polypropylene Impact Copolymer

Pinnacle Polymers

Message:

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 Information			
Additive	Heat Stabilizer		
Features	Food Contact Acceptable		
	Good Color Stability		
	Good Heat Aging Resistance		
	Good Processing Stability		
	Heat Stabilized		
	High Impact Resistance		
	Impact Copolymer		
	Low Temperature 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		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	23.5	MPa	ASTM D638

Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	10	%	ASTM D638
Flexural Modulus - 1% Secant ³ (3.20 mm, Injection Molded)	1040	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C, 3.20 mm, Injection Molded)	> 530	J/m	ASTM D256
Gardner Impact ⁵ (-30°C)	35.2	J	ASTM D5420
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 1.3 mm/min		
4.	Type I		
5.	Method G, Geometry GC		

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