

Pinnacle PP 2108

Polypropylene Impact Copolymer

Pinnacle Polymers

Message:

8 MELT FLOW MEDIUM IMPACT COPOLYMER POLYPROPYLENE

Pinnacle Polymers Polypropylene 2108 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 sheet extrusion, thermoformed containers, and injection molding applications where toughness and cold temperature impact strength are required.

The 2108 product provides:

- Excellent cleanliness
- Superior toughness
- Excellent color and process stability
- Good melt strength
- UL Listed

Pinnacle's 2108 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			
UL YellowCard		E130336-221939	
Features	Clean/High Purity		
	Food Contact Acceptable		
	Good Color Stability		
	Good Melt Strength		
	Good Processing Stability		
	Good Toughness		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Medium Impact Resistance		
Uses	Sheet		
	Thermoformed Containers		
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		
	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method

Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	24.2	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant ³ (3.20 mm, Injection Molded)	1280	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C, 3.20 mm, Injection Molded)	> 320	J/m	ASTM D256
Notched Izod Impact (Area) ⁵ (23°C, 3.20 mm, Injection Molded)	> 31.0	kJ/m ²	ASTM D256
Gardner Impact ⁶ (-30°C)	> 150	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	104	°C	ASTM D648
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 1.3 mm/min		
4.	Type I		
5.	Type I		
6.	Method G, Geometry GC		

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