Pinnacle PP 2108

Pinnacle Polymers - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

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			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
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

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.015	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, 0.126 in, Injection Molded)	3510	psi	ASTM D638
Tensile Elongation [2] (Yield, 0.126 in, Injection Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant [3] (0.126 in, Injection Molded)	185000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [4] (73°F, 0.126 in, Injection Molded)	> 6.0	ft·lb/in	ASTM D256
Notched Izod Impact (Area) [4]			ASTM D256
73°F, 0.126 in, Injection Molded	> 14.8	ft·lb/in²	

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Impact	Nominal Value	Unit	Test Method
Gardner Impact [5] (-22°F)	> 1330	in·lb	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	219	°F	ASTM D648

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Type I, 2.0 in/min

[3] Type I, 0.050 in/min

[4] Type I

[5] Method G, Geometry GC