Pinnacle PP 8238H

Pinnacle Polymers - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

38 MELT FLOW HIGH FLEX IMPACT COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 8238H is made via UNIPOL™ PP technology, which utilizes gas-phase fluidized bed reactors with a high activity catalyst system to ensure uniform physicalproperties and lot-to-lot consistency.

This product is intended for thin wall injection molding applications. Its high melt flow allows for quick filling of molds. Also designed for use in compounding.

The 8238H product provides:

- High Flexural Modulus
- Superior balance of stiffness and impact strength
- Long Term Heat Stability
- Nucleated
- Fast cycle-time

Pinnacle's polypropylene, as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form complies with appropriate requirements of CFR Title 21, Part 177, Subpart B, Section 177.1520 (c) 3.1a entitled "Olefin Polymers" of the Food Additives Amendment of 1958 to the United States Food, Drug and Cosmetic Act of 1938.

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Heat Stabilizer	• Nucleating Agent	
Features	• Fast Molding Cycle • Food Contact Acceptable	• Heat Stabilized • High Flow	• Impact Copolymer • Nucleated
Uses	• Compounding	• Thin-walled Parts	
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.1a		
Forms	• Pellets		
Processing Method	• Injection Molding		

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)	38	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.014	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, 0.126 in, Injection Molded)	4200	psi	ASTM D638
Tensile Elongation [2] (Yield, 0.126 in, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant [3] (0.126 in, Injection Molded)	213000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [4] (73°F, 0.126 in, Injection Molded)	1.3	ft·lb/in	ASTM D256
Notched Izod Impact (Area) [4]			ASTM D256
73°F, 0.126 in, Injection Molded	3.24	ft·lb/in²	
Gardner Impact [5] (-22°F)	35.4	in·lb	ASTM D5420

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	243	°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