

Pinnacle PP 8238H

Polypropylene Impact Copolymer

Pinnacle Polymers

Message:

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 physical properties 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 Information			
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		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	38	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	29.0	MPa	ASTM D638

Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (3.20 mm, Injection Molded)	1470	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C, 3.20 mm, Injection Molded)	69	J/m	ASTM D256
Notched Izod Impact (Area) ⁵ (23°C, 3.20 mm, Injection Molded)	6.80	kJ/m ²	ASTM D256
Gardner Impact ⁶ (-30°C)	4.00	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	117	°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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