



Pinnacle PP 5120H

Pinnacle Polymers - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

20 MELT FLOW RANDOM COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 5120H 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 caps, closures, and general purpose injection molding applications. This product contains a nucleation and antistatic additive package.

The 5120H product provides:

- Improved FDA food contact status
- Superior color and processing stability
- Low odor
- Good flow and set-up behavior
- Antistatic properties
- Excellent lot-to-lot consistency

Pinnacle 5120H as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form is cleared by way of FCN 1538 for use in single- and repeated-use articles intended to contact all types of food under the Food and Drug Administration's (FDA) Conditions of Use A through H. FDA has not evaluated the use of this product in contact with infant formula or breast milk.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Additive	• Antistatic • Nucleating Agent
Features	• Antistatic • Good Flow • Nucleated • Food Contact Acceptable • Good Processing Stability • Random Copolymer • Good Color Stability • Low Odor
Uses	• Caps • Closures • General Purpose
Agency Ratings	• FDA Food Contact, Unspecified Rating
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 0.126 in, Injection Molded)	3700	psi	ASTM D638
Tensile Elongation ² (Yield, 0.126 in, Injection Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant ³ (0.126 in, Injection Molded)	137000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (73°F, 0.126 in, Injection Molded)	0.99	ft-lb/in	ASTM D256
Notched Izod Impact (Area) ⁴ 73°F, 0.126 in, Injection Molded	2.47	ft-lb/in ²	ASTM D256

Pinnacle PP 5120H

Pinnacle Polymers - Polypropylene Random Copolymer

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