Pinnacle PP 7135G

Pinnacle Polymers - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

35 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING WITH RADIATION RESISTANCE

Pinnacle Polymers Polypropylene 7135G 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.

7135G is specially formulated to resist degradation when exposed to high energy radiation. This product is intended for injection molding applications that require fast cycle time, enhanced processability and excellent clarity.

This product is not formulated to contain any fluorescing agents.

The 7135G product provides:

- Radiation sterilizable
- Improved FDA food contact status
- Excellent lot-to-lot consistency
- Excellent impact resistance
- Low extractables

Pinnacle 7135G 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 food types I, II, IV-B, VI, VII-B and VII under the Food and Drug Administration-s Conditions of Use B through H. FDA has not evaluated the use of this product in contact with infant formula or breast milk.

General			
Material Status	• Experimental: Active		
Availability	• Europe	• North America	
Additive	• Clarifier		
Features	• Fast Molding Cycle • Food Contact Acceptable • Good Processability	• High Clarity • High Impact Resistance • Low Extractables	• Radiation (Gamma) Resistant • Radiation Sterilizable • Random Copolymer
Agency Ratings	• FDA Food Contact, Unspecified Rating		
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)	35	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, 0.126 in, Injection Molded)	4000	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)	149000	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
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	163	°F	ASTM D648

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Optical	Nominal Value	Unit
Haze (50.0 mil)	9.00	%

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