



Pinnacle PP 5135I3

Pinnacle Polymers - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

35 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 5135I3 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 injection molding applications that require fast cycle time, enhanced processability and excellent clarity. This product also has improved impact resistance and enhanced mold-release.

The 5135I3 product provides:

- Improved FDA food contact status
- New generation clarifier
- Improved color
- Excellent impact resistance
- Enhanced mold-release properties

Pinnacle 5135I3 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	• Clarifier		
Features	• Fast Molding Cycle • Food Contact Acceptable	• Good Mold Release • High Clarity	• High Impact Resistance • 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/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	32 to 38	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.016	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 0.126 in, Injection Molded)	3800	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)	140000	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 73°F, 0.126 in, Injection Molded	3.24	ft-lb/in ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	160	°F	ASTM D648

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Optical	Nominal Value	Unit
Haze (50.0 mil)	9.00	%
Yellowness Index	< -10	YI

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