Pinnacle PP 5135I3

Polypropylene Random Copolymer

Pinnacle Polymers

Message:

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:
New generation clarifier
Improved color
Excellent impact resistance
High melt flow, excellent processability
Enhanced mold-release properties
Pinnacle's polypropylene, as marketed by Pinnacle Polymers, 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	Clarifier		
Features	Fast Molding Cycle Food Contact Acceptable Good Mold Release Good Processability High Clarity High Flow High Impact Resistance Random Copolymer		
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/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	32 to 38	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.6	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, 3.20 mm, Injection Molded)	26.2	MPa	ASTM D638
Tensile Elongation [2] (Yield, 3.20 mm, Injection Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant [3] (3.20 mm, Injection Molded)	965	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
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	71.0	°C	ASTM D648
Optical	**Nominal Value**	**Unit**	
Haze (1270 µm)	9.0	%	
Yellowness Index	< -10	YI	
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		

Recommended distributors for this material

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