

5135I3

35 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Product Description and Applications:

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.

Features:

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.

Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	32.2-37.8 g/10 min.	32.2-37.8 g/10 min.	D1238 ¹
Density at 23°C	0.9 g/cm ³	900 kg/m ³	D1505
Shrinkage	0.016 in/in	0.016 mm/mm	D955
Heat Deflection Temperature at 0.455 MPa	159°F	71°C	D648
Tensile yield strength, at 51 mm/min	3800 psi	26.2 MPa	D638 ²
Yield elongation, at 51 mm/min	12%	12%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	140,000 psi	965 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	1.3 ft-lb/in	69 J/m 6.8 kJ/m ²	D256 ²
% Yellowness Index	≤-10	≤-10	
Haze (1.27 mm plaque)	9%	9%	

¹Condition L 230/2.16

²ASTM Type I specimen, 3.2 mm thick (injection molded per ASTM D4101-92a)

³Method G, Geometry GC

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