

# 5112C3

## 12 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

### Product Description and Applications:

Pinnacle Polymers Polypropylene 5112C3 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 low melt flow, fast cycle time, enhanced processability and excellent clarity. This product also has improved impact resistance and a new generation clarifier.

### Features:

The 5112C3 product provides:

- Excellent clarity
- Antistat
- Improved color
- Excellent impact resistance
- Low melt flow, excellent processability

Pinnacle 5112C3 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	12 g/10 min.	12 g/10 min.	D1238 <sup>1</sup>
Density at 23°C	0.9 g/cm <sup>3</sup>	900 kg/m <sup>3</sup>	D1505
Shrinkage	0.016 in/in	0.016 mm/mm	D955
Heat Deflection Temperature at 0.455 MPa (66psi)	165°F	74°C	D648
Tensile yield strength, at 51 mm/min	4100 psi	28.3 MPa	D638 <sup>2</sup>
Yield elongation, at 51 mm/min	11%	11%	D638 <sup>2</sup>
Flexural modulus (1% secant) at 1.27 mm/min	145,000 psi	1000 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	2.8 ft-lb/in	149 J/m 15 kJ/m <sup>2</sup>	D256 <sup>2</sup>
% Yellowness Index	Less than -5	Less than -5	
Haze (1.27 mm plaque)	9%	9%	

<sup>1</sup>Condition L 230/2.16

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

<sup>3</sup>Method G, Geometry GC

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