

6199C3

100 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 6199C3 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 very high melt flow, more stiffness, faster cycle time, low bloom, enhanced processability and excellent clarity. This product contains a new generation clarifier.

Features:

The 6199C3 product provides:

- Very high melt flow
- Improved FDA food contact status
- Low bloom
- Excellent processability
- Increased stiffness
- Reduced cycle-time
- Improved color

Pinnacle 6199C3 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	100 g/10 min.	100 g/10 min.	D1238 ¹
Density at 23°C	0.9 g/cm ³	900 kg/m ³	D1505
Shrinkage	0.015 in/in	0.015 mm/mm	D955
Heat Deflection Temperature at 0.455 MPa (66psi)	175°F	79°C	D648
Tensile yield strength, at 51 mm/min	4100 psi	28.3 MPa	D638 ²
Yield elongation, at 51 mm/min	14%	14%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	160,000 psi	1103 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	0.9 ft-lb/in	48 J/m 4.7 kJ/m ²	D256 ²
% Yellowness Index	Less than -10	Less than -10	
Haze (1.27 mm plaque)	10%	10%	

* Developmental data taken from a limited database

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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