

5175C3 (Developmental)

75 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 5175C3 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 high melt flow, fast cycle time, enhanced processability and excellent clarity. This product also has enhanced impact resistance and the latest generation clarifier.

Features:

The 5175C3 product provides:

- High melt flow, excellent processability
- Excellent impact resistance
- Good mold release
- Latest generation clarifier
- Improved color

Pinnacle 5175C3 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.

Developmental Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	75 g/10 min.	75 g/10 min.	D1238 ¹
Density at 23°C	0.9 g/cm ³	900 kg/m ³	D1505
Tensile yield strength, at 51 mm/min	3900 psi	26.9 MPa	D638 ²
Yield elongation, at 51 mm/min	15%	15%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	150,000 psi	1034 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	1.3 ft-lb/in	69.4 J/m	D256 ²
% Yellowness Index	Less than -5	Less than -5	
Haze (1.27 mm plaque)	9%	9%	

¹ Condition L 230/2.16

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

³ Method G, Geometry GC

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