Pinnacle Polymers®

VALIDATED

• MILLAD® NX™ 8000 ENABLES AN AVERAGE OF 10% ENERGY SAVINGS FOR PRODUCTION OF CLARIFIED PP PARTS

UL.COM/ECV

6180C3

80 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 6180C3 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, more stiffness, faster cycle time, low bloom, enhanced processability and excellent clarity. This product contains a new generation clarifier.

Features:

The 6180C3 product provides:

- Improved FDA food contact status
- Low bloom
- High melt flow, excellent processability
- Increased stiffness
- Reduced cycle-time
- Improved color
- Increased stiffness

Pinnacle 6180C3 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	80 g/10 min.	80 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)	172°F	78°C	D955
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	D256[2]
% Yellowness Index	Less than -10	Less than -10	
Haze (1.27 mm plaque)	9%	9%	

* Developmental Data taken from a limited database
[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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