

5155C3

55 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 5155C3 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 improved impact resistance and a new generation clarifier.

Features:

The 5155C3 product provides:

- Improved FDA food contact status
- New generation clarifier
- Improved color
- Excellent impact resistance
- High melt flow, excellent processability

Pinnacle 5155C3 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 | 55 g/10 min. | 55 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) | 163°F | 73°C | D648 |
| Tensile yield strength, at 51 mm/min | 3900 psi | 26.9 MPa | D638 ² |
| Yield elongation, at 51 mm/min | 12% | 12% | D638 ² |
| Flexural modulus (1% secant) at 1.27 mm/min | 145,000 psi | 1000 MPa | D790A ² |
| Notched Izod impact strength, at 73°F/23°C | 1.2 ft-lb/in | 64 J/m 6.3 kJ/m ² | D256 ² |
| % Yellowness Index | Less than -5 | Less than -5 | |
| 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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