



# Pinnacle PP 6155C3

## Pinnacle Polymers - Polypropylene Random Copolymer

Tuesday, November 5, 2019

### General Information

#### Product Description

55 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 6155C3 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.

The 6155C3 product provides:

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

Pinnacle 6155C3 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.

#### General

|                   |                                                                            |                                                 |                    |
|-------------------|----------------------------------------------------------------------------|-------------------------------------------------|--------------------|
| Material Status   | • Commercial: Active                                                       |                                                 |                    |
| Availability      | • Europe                                                                   | • North America                                 |                    |
| Additive          | • Clarifier                                                                |                                                 |                    |
| Features          | • Fast Molding Cycle<br>• Food Contact Acceptable<br>• Good Processability | • High Clarity<br>• High Flow<br>• Low Blooming | • Random Copolymer |
| Agency Ratings    | • FDA Food Contact, Unspecified Rating                                     |                                                 |                    |
| Forms             | • Pellets                                                                  |                                                 |                    |
| Processing Method | • Injection Molding                                                        |                                                 |                    |

### ASTM & ISO Properties <sup>1</sup>

| Physical                                                                    | Nominal Value | Unit                  | Test Method |
|-----------------------------------------------------------------------------|---------------|-----------------------|-------------|
| Density                                                                     | 0.900         | g/cm <sup>3</sup>     | ASTM D1505  |
| Melt Mass-Flow Rate (230°C/2.16 kg)                                         | 55            | g/10 min              | ASTM D1238  |
| Molding Shrinkage - Flow                                                    | 0.015         | in/in                 | ASTM D955   |
| Mechanical                                                                  | Nominal Value | Unit                  | Test Method |
| Tensile Strength <sup>2</sup> (Yield, 0.126 in, Injection Molded)           | 4210          | psi                   | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Yield, 0.126 in, Injection Molded)         | 14            | %                     | ASTM D638   |
| Flexural Modulus - 1% Secant <sup>3</sup> (0.126 in, Injection Molded)      | 165000        | psi                   | ASTM D790A  |
| Impact                                                                      | Nominal Value | Unit                  | Test Method |
| Notched Izod Impact <sup>4</sup> (73°F, 0.126 in, Injection Molded)         | 0.99          | ft-lb/in              | ASTM D256   |
| Notched Izod Impact (Area) <sup>4</sup><br>73°F, 0.126 in, Injection Molded | 2.47          | ft-lb/in <sup>2</sup> | ASTM D256   |

# Pinnacle PP 6155C3

## Pinnacle Polymers - Polypropylene Random Copolymer

| Thermal                                                | Nominal Value | Unit | Test Method |
|--------------------------------------------------------|---------------|------|-------------|
| Deflection Temperature Under Load (66 psi, Unannealed) | 172           | °F   | ASTM D648   |
| Optical                                                | Nominal Value | Unit |             |
| Haze (50.0 mil)                                        | 9.00          | %    |             |
| Yellowness Index                                       | < -10         | YI   |             |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Type I, 2.0 in/min

<sup>3</sup> Type I, 0.050 in/min

<sup>4</sup> Type I