

Pinnacle PP 6199C3

Polypropylene Random Copolymer

Pinnacle Polymers

Message:

100 MELT FLOW CLARIFIED RANDOM COPOLYMER FOR INJECTION MOLDING

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.

The 6199C3 product provides:

- Very high melt flow
- Low bloom
- Excellent processability
- New generation clarifier
- Increased stiffness
- Reduced cycle-time
- Improved color

| General Information | | | |
|---|---------------------|-------------------|-------------|
| Additive | Clarifier | | |
| Features | Fast Molding Cycle | | |
| | Good Processability | | |
| | High Clarity | | |
| | High Flow | | |
| | Low Blooming | | |
| | Random Copolymer | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.900 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 100 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 1.5 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded) | 28.3 | MPa | ASTM D638 |
| Tensile Elongation ² (Yield, 3.20 mm, Injection Molded) | 14 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ (3.20 mm, Injection Molded) | 1100 | MPa | ASTM D790A |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact ⁴ (23°C, 3.20 mm, Injection Molded) | 48 | J/m | ASTM D256 |
| Notched Izod Impact (Area) ⁵ (23°C, 3.20 mm, Injection Molded) | 4.70 | kJ/m ² | ASTM D256 |

| Thermal | Nominal Value | Unit | Test Method |
|--|--------------------|------|-------------|
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 79.0 | °C | ASTM D648 |
| Optical | Nominal Value | Unit | |
| Haze (1270 μm) | 10 | % | |
| Yellowness Index | < -10 | YI | |
| NOTE | | | |
| 1. | Type I, 51 mm/min | | |
| 2. | Type I, 51 mm/min | | |
| 3. | Type I, 1.3 mm/min | | |
| 4. | Type I | | |
| 5. | Type I | | |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

