

Pinnacle PP 1120 Z

Polypropylene Homopolymer

Pinnacle Polymers

Message:

22 MELT FLOW HOMOPOLYMER POLYPROPYLENE WITH ANTISTAT AND NUCLEATION FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 1120 Z 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 molding of cutlery, closures, thin wall containers and other consumer products. 1120 Z contains both a nucleation and antistatic additive system.

The 1120 Z product provides:

- Superior stiffness
- Good static charge dissipation
- High speed processing: very fast cycle time
- Excellent mold release

Pinnacle's polypropylene, as marketed by Pinnacle Polymers, in natural, uncolored pellet form complies with appropriate requirements of CFR Title 21, Part 177, Subpart B, Section 177.1520 (c) 1.1a entitled "Olefin Polymers" of the Food Additives Amendment of 1958 to the United States Food, Drug and Cosmetic Act of 1938.

| General Information | | | |
|--|-----------------------------|-------------------|-------------|
| Additive | Antistatic | | |
| | Nucleating Agent | | |
| Features | Antistatic | | |
| | Fast Molding Cycle | | |
| | Food Contact Acceptable | | |
| | Good Mold Release | | |
| | Good Stiffness | | |
| | Homopolymer | | |
| | Nucleated | | |
| Uses | Closures | | |
| | Consumer Applications | | |
| | Thin-walled Containers | | |
| Agency Ratings | FDA 21 CFR 177.1520(c) 1.1a | | |
| 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) | 22 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 1.3 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded) | 40.0 | MPa | ASTM D638 |

| | | | |
|---|--------------------|-------------------|-------------|
| Tensile Elongation ² (Yield, 3.20 mm, Injection Molded) | 7.0 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ (3.20 mm, Injection Molded) | 2000 | MPa | ASTM D790A |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact ⁴ (23°C, 3.20 mm, Injection Molded) | 32 | J/m | ASTM D256 |
| Notched Izod Impact (Area) ⁵ (23°C, 3.20 mm, Injection Molded) | 3.10 | kJ/m ² | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 131 | °C | ASTM D648 |
| 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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