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## 1120 Z

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

#### Product Description and Applications:

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.

#### Features:

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.

### Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	22 g/10 min.	22 g/10 min.	D1238 <sup>1</sup>
Density at 23°C	0.9 g/cm <sup>3</sup>	900 kg/m <sup>3</sup>	D1505
Shrinkage	0.013 in/in	0.013 mm/mm	D955
Heat Deflection Temperature, at 0.455 MPa(66psi)	267°F	131°C	D648
Tensile yield strength, at 51 mm/min	5800 psi	40 MPa	D638 <sup>2</sup>
Yield elongation, at 51 mm/min	7%	7%	D638 <sup>2</sup>
Flexural modulus (1% secant) at 1.27 mm/min	290,000 psi	2000 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	0.6 ft-lb/in	32 J/m 3.1 kJ/m <sup>2</sup>	D256 <sup>2</sup>

<sup>1</sup>Condition L 230/2.16

<sup>2</sup>ASTM Type I specimen, 3.2 mm thick (injection molded per ASTM D4101-92a)

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