

1112 Z

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

Product Description and Applications:

Pinnacle Polymers Polypropylene 1112 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 general-purpose injection molding of cutlery, closures and thin wall containers. 1112 Z contains both a nucleation and antistatic additive package.

Features:

The 1112 Z product provides:

- Superior color and processing stability
- Good flow characteristics
- Low odor and taste
- Antistatic properties

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	12 g/10 min.	12 g/10 min.	D1238 ¹
Density at 23°C	0.9 g/cm ³	900 kg/m ³	D1505
Shrinkage	0.014 in/in	0.014 mm/mm	D955
Heat Deflection Temperature at 0.455 Mpa (66psi)	260 °F	127°C	D648
Tensile yield strength, at 51 mm/min	5700 psi	39.3 MPa	D638 ²
Yield elongation, at 51 mm/min	8%	8%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	280,000 psi	1931 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	0.7 ft-lb/in	37 J/m 3.7 kJ/m ²	D256 ²

¹Condition L 230/2.16

²ASTM Type I specimen, 3.2 mm thick (injection molded per ASTM D4101-92a) UNIPOL is a trademark of Union Carbide Corporation

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