

# 1112

## 12 MELT FLOW HOMOPOLYMER FOR INJECTION MOLDING

### Product Description and Applications:

Pinnacle Polymers Polypropylene 1112 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 such as resin furniture, closures, and consumer product applications.

### Features:

The 1112 product provides:

- Excellent color and processing stability
- Good flow characteristics
- Excellent organoleptic properties
- UL Listed

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 <sup>1</sup>
Density at 23°C	0.9 g/cm <sup>3</sup>	900 kg/m <sup>3</sup>	D1505
Shrinkage	0.014 in/in	0.014 mm/mm	D955
Heat Deflection Temperature at 0.455 MPa (66psi)	222°F	105°C	D648
Tensile yield strength, at 51 mm/min	5000 psi	34.5 MPa	D638 <sup>2</sup>
Yield elongation, at 51 mm/min	9%	9%	D638 <sup>2</sup>
Flexural modulus (1% secant) at 1.27 mm/min	240,000 psi	1654 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) UNIPOL is a trademark of Union Carbide Corporation

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