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# 1512I

## 11 MELT FLOW HOMOPOLYMER FOR FIBER SPINNING

### Product Description and Applications:

Pinnacle Polymers Polypropylene 1512I 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 fiber spinning and other critical extrusion applications.

### Features:

The 1512I product provides:

- Excellent color processing stability
- Superior fiber spinning characteristics
- Resistance to gas fading
- Enhanced fiber resiliency
- Excellent lot-to-lot consistency

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	11 g/10 min.	11 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
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	1655 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	0.6 ft-lb/in	32 J/m	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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