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# 1517

## 20 MELT FLOW HOMOPOLYMER FOR FIBER SPINNING

### Product Description and Applications:

Pinnacle Polymers Polypropylene 1517 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 1517 product provides:

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

Pinnacle's 1517 polypropylene as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form complies with appropriate requirements of CFR Title 21, Part 177, Subpart B, Section 177.1520 (c) 1.1a. May be used in contact with food types I, II, IV-B, VII-B and VIII described in Table 1 of § 176.170(c), under conditions of use B through H described in table 2 of § 176.170(c) and with food types III, IV-A, V, VI, VII-A, and IX described in Table 1 of § 176.170(c) under conditions of use D through H described in table 2 of § 176.170(c).

## Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	20 g/10 min.	20 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)	245°F	118°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	0.5 ft-lb/in	27 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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