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## 1104A

### 4 MELT FLOW HOMOPOLYMER PROFILE EXTRUSION GRADE

#### Product Description and Applications:

Pinnacle Polymers Polypropylene 1104A 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 flexible drinking straws and other high-speed profile extrusion applications. Contains an anti-stat.

#### Features:

The 1104A product provides:

- Excellent color and processing stability
- Resistance to static build-up
- Low taste and odor
- Excellent cleanliness

Pinnacle's 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 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	4.8 g/10 min.	4.8 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	5200 psi	35.9 MPa	D638 <sup>2</sup>
Yield elongation, at 51 mm/min	10%	10%	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	0.7 ft-lb/in	37 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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