



P. O. Drawer E  
 Garyville, LA 70051  
 Tel: (985) 535-2000  
 Fax: (985) 535-1234

## 4103

### 3.5 MELT FLOW HIGH IMPACT COPOLYMER POLYPROPYLENE FOR INJECTION MOLDING

#### Product Description and Applications:

Pinnacle Polymers Polypropylene 4103 is a heterophasic copolymer designed for injection molding in both demanding production and end-product applications.

This product is suitable for injection molding of housewares, crates, boxes, toys and other items needing extremely high impact properties.

#### Features:

The 4103 product provides:

- Moderate stiffness
- Low melt flow
- No-Break Izod
- Excellent low temperature impact
- Superior processability

Pinnacle's 4103 polypropylene as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form complies with all of the appropriate requirements of CFR Title 21, Part 177, Subpart B, Section 177.1520 (c) 3.1a, and 3.2a entitles "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	3.5 g/10 min.	3.5 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	3200 psi	22 MPa	D638 <sup>2</sup>
Yield elongation, at 51 mm/min	5%	5%	D638 <sup>2</sup>
Flexural modulus (1% secant) at 1.27 mm/min	160,000 psi	1104 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	≥10 ft-lb/in	≥534 J/m	D256 <sup>2</sup>
Gardner Impact at -22°F/-30°C	≥320 in-lb	≥35 J	D5420 <sup>3</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)

<sup>3</sup>Method G, Geometry GC