

# 2135

## 35 MELT FLOW MEDIUM IMPACT COPOLYMER FOR INJECTION MOLDING

### Product Description and Applications:

Pinnacle Polymers Polypropylene 2135 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 injection molding of a variety of articles including large parts, packaging, housewares and consumer products.

### Features:

The 2135 product provides:

- High impact strength
- High melt flow
- Superior processability
- Excellent lot-to-lot consistency

Pinnacle's 2135 polypropylene as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form is covered under US FDA Food Contact Notification 864. As such, this polymer complies with the requirements of CFR Title 21 and can be used in contact with all food types under Conditions of Use A-H.

### Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	35 g/10 min.	35 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	7%	7%	D638 <sup>2</sup>
Flexural modulus (1% secant) at 1.27 mm/min	≥145,000 psi	≥1000 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	≥2 ft-lb/in	≥106 J/m	D256 <sup>2</sup>
Gardner Impact at -22°F/-30°C	200 in-lb	22 J	D5420 <sup>3</sup>
Heat Deflection Temperature at 0.455 MPa (66psi)	181°F	83°C	D648
Shrinkage	0.014 in/in	0.014 mm/mm	D955

<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

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FDA and SDS documents are available on our website at: <http://www.pinnaclepolymers.com/datasds.php>

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