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## 2180H

### 80 MELT FLOW MEDIUM IMPACT COPOLYMER POLYPROPYLENE FOR INJECTION MOLDING

#### Product Description and Applications:

Pinnacle Polymers Polypropylene 2180H 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 controlled rheology copolymer is intended for use in thin wall injection molded packaging, housewares and consumer products applications. High Melt Flow dramatically improves cycle-times without forfeiting impact. Contains nucleator and antistat.

#### Features:

The 2180H product provides:

- High stiffness
- Excellent impact at 23°C and -30°C
- Very high melt flow
- Excellent mold release
- Superior processability
- Excellent lot-to-lot consistency

### Typical Properties \*\*

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	73.6-86.4 g/10 min.	73.6-86.4 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	≥3000 psi	≥20 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	≥155,000 psi	≥1068 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	≥1.8 ft-lb/in	≥96 J/m ≥9.4 kJ/m <sup>2</sup>	D256 <sup>2</sup>
Gardner Impact at -22°F/-30°C	≥135 in-lb	14 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

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\*\* Data based on small sample set