

# Pinnacle PP 2180H

Polypropylene Impact Copolymer

Pinnacle Polymers

## Message:

80 MELT FLOW MEDIUM IMPACT COPOLYMER POLYPROPYLENE FOR INJECTION MOLDING

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.

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

Pinnacle's 2180H polypropylene is covered under US FDA Food Contact Notification 864. As such, this polymer can be used in contact with all food types under Conditions of Use A-H, as described in 21 CFR 176.170, Tables 1 and 2. This polymer also complies with 21 CFR 177.1520(c), items 3.1(a) and 3.2(a).

General Information	
UL YellowCard	E130336-100179343
Additive	Antistatic
	Nucleating Agent
Features	Antistatic
	Controlled Rheology
	Food Contact Acceptable
	Good Mold Release
	Good Processability
	High Flow
	High Stiffness
	Impact Copolymer
	Low Temperature Impact Resistance
	Medium Impact Resistance
	Nucleated
Uses	Consumer Applications
	Household Goods
	Thin-walled Packaging
Agency Ratings	FDA 21 CFR 176.170 Table 1 & 2, Cond A-H
	FDA 21 CFR 177.1520(c) 3.1a
	FDA 21 CFR 177.1520(c) 3.2a

Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	74 to 86	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 3.20 mm, Injection Molded)	> 20.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 3.20 mm, Injection Molded)	5.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (3.20 mm, Injection Molded)	> 1070	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	> 96	J/m	ASTM D256
Notched Izod Impact (Area) <sup>5</sup> (23°C, 3.20 mm, Injection Molded)	> 9.40	kJ/m <sup>2</sup>	ASTM D256
Gardner Impact <sup>6</sup> (-30°C)	14.0	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	106	°C	ASTM D648
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 1.3 mm/min		
4.	Type I		
5.	Type I		
6.	Method G, Geometry GC		

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