

# Pinnacle PP 2135N

Polypropylene Impact Copolymer

Pinnacle Polymers

Message:

35 MELT FLOW IMPACT COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 2135N 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 packaging, housewares and consumer products requiring higher Flex and toughness. Contains nucleator, but no antistatic.

The 2135N product provides:

- High stiffness and excellent impact strength
- High melt flow
- Fast cycle-time
- Superior processability
- Excellent lot-to-lot consistency

Pinnacle's 2135N 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	E130336-100179342		
Additive	Nucleating Agent		
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Flexibility		
	Good Processability		
	Good Toughness		
	High Flow		
	High Impact Resistance		
	High Stiffness		
	Impact Copolymer		
	Nucleated		
Uses	Consumer Applications		
	Household Goods		
	Packaging		
Agency Ratings	FDA 21 CFR 176.170 Tables 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)	35	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 3.20 mm, Injection Molded)	22.8	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 3.20 mm, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (3.20 mm, Injection Molded)	1100	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	> 190	J/m	ASTM D256
Notched Izod Impact (Area) <sup>5</sup> (23°C, 3.20 mm, Injection Molded)	> 18.3	kJ/m <sup>2</sup>	ASTM D256
Gardner Impact <sup>6</sup> (-30°C)	22.0	J	ASTM D5420
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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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

