Pinnacle PP 2135N

Pinnacle Polymers - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

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			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
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		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, 0.126 in, Injection Molded)	3300	psi	ASTM D638
Tensile Elongation [2] (Yield, 0.126 in, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant [3] (0.126 in, Injection Molded)	160000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [4] (73°F, 0.126 in, Injection Molded)	> 3.5	ft·lb/in	ASTM D256
Notched Izod Impact (Area) [4]			ASTM D256
73°F, 0.126 in, Injection Molded	> 8.71	ft·lb/in²	

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Impact	Nominal Value	Unit	Test Method
Gardner Impact [5] (-22°F)	195	in·lb	ASTM D5420

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Type I, 2.0 in/min

[3] Type I, 0.050 in/min

[4] Type I

[5] Method G, Geometry GC