



Pinnacle PP 2135H

Pinnacle Polymers - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

35 MELT FLOW MEDIUM IMPACT COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 2135H 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 applications.

The 2135H product provides:

- High stiffness and impact strength
- High melt flow
- Excellent mold release
- Superior processability
- Excellent lot-to-lot consistency
- UL Listed

Pinnacle's 2135H 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	
Features	• Food Contact Acceptable • Good Mold Release • Good Processability	• High Flow • High Stiffness • Impact Copolymer	• Medium Impact Resistance
Uses	• Consumer Applications	• Household Goods	• 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 • UL Unspecified Rating	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.014	in/in	ASTM D955
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)	170000	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 73°F, 0.126 in, Injection Molded	> 8.71	ft-lb/in ²	ASTM D256

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Impact	Nominal Value	Unit	Test Method
Gardner Impact ⁵ (-22°F)	195	in-lb	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	217	°F	ASTM D648

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