



Pinnacle PP 4130H

Pinnacle Polymers - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

35 MELT FLOW ULTRA HIGH IMPACT COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 4130H 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 injection molding of flooring, automotive, appliance, lawn and garden products, and industrial applications. Its high melt flow allows for quick filling of molds.

The 4130H product provides:

- Ultra high impact and melt flow
- Superior balance of stiffness and impact strength
- Excellent color and processing stability
- Fast cycle-time

It is characterized not only by its easy mold flow, but also high impact at both room and sub-ambient conditions.

Pinnacle's 4130H 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	• Fast Molding Cycle • Food Contact Acceptable • Good Color Stability	• Good Processing Stability • High Flow • Impact Copolymer	• Low Temperature Impact Resistance • Ultra High Impact Resistance
Uses	• Appliances • Automotive Applications	• Flooring • Industrial Applications	• Lawn and Garden Equipment
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		

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)	3100	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)	155000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (73°F, 0.126 in, Injection Molded)	> 10	ft-lb/in	ASTM D256

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Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) ⁴ 73°F, 0.126 in, Injection Molded	> 24.7	ft·lb/in ²	ASTM D256
Gardner Impact ⁵ (-22°F)	292	in·lb	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	210	°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