

Pinnacle PP 2135H

Polypropylene Impact Copolymer

Pinnacle Polymers

Message:

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 Information			
UL YellowCard	E130336-100179342		
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		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	22.8	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (3.20 mm, Injection Molded)	1170	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C, 3.20 mm, Injection Molded)	> 190	J/m	ASTM D256
Notched Izod Impact (Area) ⁵ (23°C, 3.20 mm, Injection Molded)	> 18.3	kJ/m ²	ASTM D256
Gardner Impact ⁶ (-30°C)	22.0	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	103	°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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