Pinnacle PP 4130H

Polypropylene Impact Copolymer

Pinnacle Polymers

Message:

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:
Ulta 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 Information	
UL YellowCard	E130336-100731516
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

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	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)	21.4	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)	1070	MPa	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [4] (23°C, 3.20 mm, Injection Molded)	> 530	J/m	ASTM D256
Notched Izod Impact (Area) [5] (23°C, 3.20 mm, Injection Molded)	> 52.0	kJ/m^2	ASTM D256
Gardner Impact [6] (-30°C)	33.0	J	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	99.0	°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		

Recommended distributors for this material

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