4130H

35 MELT FLOW ULTRA HIGH IMPACT COPOLYMER FOR INJECTION MOLDING

Product Description and Applications:

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

Features:

The 4130H product provides:

- Ultra high impact and melt flow
- Superior balance of stiffness and impact strength
- UL Listed
- Fast cycle-time

Pinnacle's 4130H polypropylene as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form is covered under US FDA Food Contact Notification 864. As such, this polymer complies with the requirements of CFR Title 21 and can be used in contact with all food types under Conditions of Use A-H.

Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	35 g/10 min.	35 g/10 min.	D1238[1]
Density at 23°C	0.9 g/cm^3	900 kg/m^3	D1505
Shrinkage	0.014 in/in	0.014 mm/mm	D955
Heat Deflection Temperature at 0.455 MPa (66psi)	211°F	99°C	D648
Tensile yield strength, at 51 mm/min	3100 psi	21.4 MPa	D638[2]
Flexural modulus (1% secant) at 1.27 mm/min	155,000 psi	1070 Mpa	D790A[2]
Yield Elongation	6%	6%	D638[2]
Notched Izod breaks, at 73°F/23°C	100% No-breaks	100% No-breaks	D256[2]
Notched Izod impact strength, at 73°F/23°C	≥10 ft-lb/in	≥534 J/m ≥52 kJ/m²	D256[2]
Gardner Impact strength at -22°F/-30°C	300 in-lb	33 J	D5420[3]

[1] Condition L 230/2.16
[2] ASTM Type I specimen, 3.2 mm thick (injection molded per ASTM D4101-92a)
[3] Method G, Geometry GC
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FDA and SDS documents are available on our website at: http://www.pinnaclepolymers.com/datasds.php