



4104H

4 MELT FLOW IMPACT COPOLYMER POLYPROPYLENE

Product Description and Applications:

Pinnacle Polymers Polypropylene 4104H 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 large buckets and other injection molding applications where toughness and cold temperature impact strength are required.

Features:

The 4104H product provides:

- Excellent cleanliness
- Superior toughness
- Excellent color and process stability
- Good melt strength
- Fast Set-up time

Pinnacle's 4104H 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	4.0 g/10 min.	4.0 g/10 min.	D1238 ¹
Density at 23°C	0.9 g/cm ³	900 kg/m ³	D1505
Tensile yield strength, at 51 mm/min	3100 psi	21.4 MPa	D638 ²
Yield elongation	7.3%	7.3%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	160,000 psi	1104 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	≥10 ft-lb/in	≥534 J/m 52 kJ/m ²	D256 ²
Gardner Impact strength at -22°F/-30°C	320 in-lb	35.2 J	D5420 ³

¹Condition L 230/2.16

²ASTM Type I specimen, 3.2 mm thick (injection molded per ASTM D4101-92a)

³Method G, Geometry GC

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FDA and SDS documents are available on our website at: <http://www.pinnaclepolymers.com/datasds.php>

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