

4119H

19 MELT FLOW ULTRA HIGH IMPACT PP COPOLYMER FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 4119H 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 use in applications where superior impact properties are required. It should be considered for fabrication of cold or all-weather items.

Features:

The 4119H product provides:

- Cold temperature impact resistant
- Excellent mold release
- Superior balance of stiffness and impact strength
- Excellent color and processing stability

Potential applications include: transportation (automotive, ATV's, cold weather sporting vehicles), containers, crates and totes, lawn and garden equipment, outdoor furniture, and packaging - especially for cold temperature use Pinnacle's 4119H 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.

Developmental Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	19 g/10 min.	19 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	2850 psi	20 MPa	D638 ²
Yield elongation, at 51 mm/min	6%	6%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	147,000 psi	1015 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	≥10 ft-lb/in	≥534 J/m	D256 ²
Notched Izod impact strength at -22°F/-30°C	2.0 ft-lb/in	107 J/m	D256 ²
Gardner Impact strength at -22°F/-30°C	≥312 in-lb	≥34 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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