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4150H

55 MELT FLOW HIGH IMPACT COPOLYMER FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 4150H 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 thin-wall injection molding of housewares, industrial applications and consumer products requiring superior impact properties.

Its high melt flow allows for quick filling of molds. Contains nucleator and antistat

Features:

The 4150H product provides:

- Ultra high impact
- Superior balance of stiffness and impact strength
- Very high melt flow
- 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 4150H 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).

Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	55 g/10 min.	55 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	3000 psi	21 MPa	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	145,000 psi	1000 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	D256 ²
Gardner Impact strength at -22°F/-30°C	275 in-lb	30 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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