

2150H

55 MELT FLOW MEDIUM IMPACT COPOLYMER POLYPROPYLENE FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 2150H 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 controlled rheology copolymer is intended for use in thin wall injection molded packaging, housewares and consumer products applications. Contains nucleator and antistat.

Features:

The 2150H product provides:

- High stiffness
- Excellent impact at 23°C and -30°C
- High melt flow
- Excellent mold release
- Superior processability
- Excellent lot-to-lot consistency
- UL Listed

Pinnacle's 2150H 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 | 55 g/10 min. | 55 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) | 225°F | 107°C | D955 |
| Tensile yield strength, at 51 mm/min | 3200 psi | 22.1 MPa | D638 ² |
| Yield elongation, at 51 mm/min | 5% | 5% | D638 ² |
| Flexural modulus (1% secant) at 1.27 mm/min | 170,000 psi | 1173 MPa | D790A ² |
| Notched Izod impact strength, at 73°F/23°C | ≥ 2 ft-lb/in | ≥ 107 J/m ≥ 10.5 kJ/m ² | D256 ² |
| Gardner Impact at -22°F/-30°C | 170 in-lb | 18.7 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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