# Pinnacle PP 4150H

Polypropylene Impact Copolymer

Pinnacle Polymers

## Message:

55 MELT FLOW HIGH IMPACT COPOLYMER FOR INJECTION MOLDING
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.
It is characterized not only by its easy mold flow, but also high impact at both room and sub-ambient conditions.
The 4150H product provides:
Ultra high impact
Superior balance of stiffness and impact strength
Very high melt flow
Fast cycle-time
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).

| General Information | |
|---|---|
| Additive | Antistatic |
| | Nucleating Agent |
| Features | Antistatic |
| | Fast Molding Cycle |
| | Food Contact Acceptable |
| | High Flow |
| | Impact Copolymer |
| | Low Temperature Impact Resistance |
| | Nucleated |
| | Ultra High Impact Resistance |
| Uses | Consumer Applications |
| | Household Goods |
| | Industrial Applications |
| | Thin-walled Parts |
| Agency Ratings | FDA 21 CFR 176.170 Table 1 & 2, Cond A-H |
| | FDA 21 CFR 177.1520(c) 3.1a |
| | FDA 21 CFR 177.1520(c) 3.2a |
| Forms | Pellets |
| Processing Method | Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.900 | g/cm³ | ASTM D1505 |

| | | | |
|---|---|---|---|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 55 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 1.4 | % | ASTM D955 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [1] (Yield, 3.20 mm, Injection Molded) | 21.0 | MPa | ASTM D638 |
| Tensile Elongation [2] (Yield, 3.20 mm, Injection Molded) | 6.0 | % | ASTM D638 |
| Flexural Modulus - 1% Secant [3] (3.20 mm, Injection Molded) | 1000 | MPa | ASTM D790A |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact [4] (23°C, 3.20 mm, Injection Molded) | > 530 | J/m | ASTM D256 |
| Notched Izod Impact (Area) [5] (23°C, 3.20 mm, Injection Molded) | 52.0 | $kJ/m^2$ | ASTM D256 |
| Gardner Impact [6] (-30°C) | 30.0 | J | ASTM D5420 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 96.0 | °C | ASTM D648 |
| **NOTE** | | | |
| 1. | Type I, 51 mm/min | | |
| 2. | Type I, 51 mm/min | | |
| 3. | Type I, 1.3 mm/min | | |
| 4. | Type I | | |
| 5. | Type I | | |
| 6. | Method G, Geometry GC | | |



## Recommended distributors for this material

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