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## 4130H

### 35 MELT FLOW HIGH IMPACT COPOLYMER FOR INJECTION MOLDING

#### Product Description and Applications:

Pinnacle Polymers Polypropylene 4130H 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 injection molding of flooring, automotive, appliance, lawn and garden products, and industrial applications. Its high melt flow allows for quick filling of molds.

#### Features:

The 4130H product provides:

- Ultra high impact and melt flow
- Superior balance of stiffness and impact strength
- UL listed
- 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 4130H 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                              | 35 g/10 min.          | 35 g/10 min.          | D1238 <sup>1</sup> |
| Density at 23°C                             | 0.9 g/cm <sup>3</sup> | 900 kg/m <sup>3</sup> | D1505              |
| Tensile yield strength, at 51 mm/min        | 3100 psi              | 21.4 MPa              | D638 <sup>2</sup>  |
| Flexural modulus (1% secant) at 1.27 mm/min | 155,000 psi           | 1070 MPa              | D790A <sup>2</sup> |
| Yield Elongation                            | 6%                    | 6%                    | D638 <sup>2</sup>  |
| Notched Izod breaks, at 73°F/23°C           | 100% No-breaks        | 100% No-breaks        | D256 <sup>2</sup>  |
| Notched Izod impact strength, at 73°F/23°C  | ≥10 ft-lb/in          | ≥534 J/m              | D256 <sup>2</sup>  |
| Gardner Impact strength at -22°F/-30°C      | 300 in-lb             | 33 J                  | D5420 <sup>3</sup> |

<sup>1</sup>Condition L 230/2.16

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

<sup>3</sup>Method G, Geometry GC

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