



Pinnacle PP 2199H

Pinnacle Polymers - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

100 MELT FLOW IMPACT COPOLYMER POLYPROPYLENE FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 2199H 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. Ultra High Melt Flow dramatically improves cycle-times without forfeiting properties. Contains nucleator and antistat.

The 2199H product provides:

- Excellent cycle-time
- Very high melt flow
- Excellent mold release
- Superior processability
- Excellent lot-to-lot consistency

General

| | | | |
|-------------------|--|--|-------------------------|
| Material Status | • Commercial: Active | | |
| Availability | • Europe | • North America | |
| Additive | • Antistatic | • Nucleating Agent | |
| Features | • Antistatic • Controlled Rheology • Good Mold Release | • Good Processability • High Flow • Impact Copolymer | • Nucleated |
| Uses | • Consumer Applications | • Household Goods | • Thin-walled Packaging |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

ASTM & ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-----------------------|-------------|
| Density | 0.900 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (230°C/2.16 kg) | 100 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield, 0.126 in, Injection Molded) | 2900 | psi | ASTM D638 |
| Tensile Elongation ² (Yield, 0.126 in, Injection Molded) | 5.0 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ (0.126 in, Injection Molded) | 155000 | psi | ASTM D790A |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact ⁴ (73°F, 0.126 in, Injection Molded) | 1.3 | ft-lb/in | ASTM D256 |
| Notched Izod Impact (Area) ⁴ 73°F, 0.126 in, Injection Molded | 3.24 | ft-lb/in ² | ASTM D256 |
| Gardner Impact ⁵ (-22°F) | 212 | in-lb | ASTM D5420 |

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Notes

¹ Typical properties: these are not to be construed as specifications.

² Type I, 2.0 in/min

³ Type I, 0.050 in/min

⁴ Type I

⁵ Method G, Geometry GC
