

1335 Developmental

35 MELT FLOW HOMOPOLYMER

Product Description and Applications:

Pinnacle Polymers Polypropylene 1335 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 compounding and injection molded applications.

Features:

The 1335 product provides:

- Excellent color and processing stability
- Resistance to gas fading
- Excellent component for extrusion coating
- High Melt Flow

Pinnacle's 1335 polypropylene as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form complies with appropriate requirements of CFR Title 21, Part 177, Subpart B, Section 177.1520 (c) 1.1a. May be used in contact with food types I, II, IV-B, VII-B and VIII described in Table 1 of § 176.170(c), under conditions of use B through H described in table 2 of § 176.170(c) and with food types III, IV-A, V, VI, VII-A, and IX described in Table 1 of § 176.170(c) under conditions of use D through H described in table 2 of § 176.170(c).

Typical Properties

| Property | Traditional Units | SI Units | ASTM Test |
|--|-----------------------|---------------------------------|--------------------|
| Melt Flow Rate | 35 g/10 min. | 35 g/10 min. | D1238 ¹ |
| Density at 23°C | 0.9 g/cm ³ | 900 kg/m ³ | D1505 |
| Shrinkage | 0.012 in/in | 0.012 mm/mm | D955 |
| Heat Deflection Temperature at 0.455 MPa (66psi) | 210°F | 99°C | D648 |
| Tensile Yield Strength, @ 51mm/min | 5000 psi | 34.5 MPa | D638 |
| Yield Elongation, @ 51mm/min | 10% | 10% | D638 |
| Flexural Modulus (1% secant) @ 1.27 mm/in | 225,000 psi | 1552 MPa | D790A ² |
| Notched Izod impact strength, at 73°F/23°C | 0.5 ft-lb/in | 27 J/m 2.6 kJ/m ² | D256 ² |

¹Condition L 230/2.16

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

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