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1525

25 MELT FLOW HOMOPOLYMER FOR FIBER SPINNING

Product Description and Applications:

Pinnacle Polymers Polypropylene 1525 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 fiber spinning and other critical extrusion applications.

Features:

The 1525 product provides:

- Excellent color and processing stability
- Superior fiber spinning characteristics
- Enhanced fiber resiliency
- Excellent lot-to-lot consistency

Pinnacle's 1525 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	25 g/10 min.	25 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)	227°F	108°C	D648
Tensile yield strength, at 51 mm/min	5000 psi	34.5 MPa	D638 ²
Yield elongation, at 51 mm/min	9%	9%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	235,000 psi	1621 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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