

Pinnacle PP 1525

Polypropylene Homopolymer

Pinnacle Polymers

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Technical Data

Product Description

25 MELT FLOW HOMOPOLYMER FOR FIBER SPINNING

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.

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 section 176.170(c), under conditions of use B through H described in table 2 of section 176.170(c) and with food types III, IV-A, V, VI, VII-A, and IX described in Table 1 of section 176.170(c) under conditions of use D through H described in table 2 of section 176.170(c).

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English) • Technical Information - FDA (English)
Search for UL Yellow Card	• Pinnacle Polymers • Pinnacle PP
Availability	• Europe • North America
Features	• Food Contact Acceptable • Good Processing Stability • Resilient • Good Color Stability • Homopolymer
Uses	• Fibers
Agency Ratings	• FDA 21 CFR 176.170(c), Table 2, Cond. B • FDA 21 CFR 176.170(c), Table 2, Cond. E • FDA 21 CFR 176.170(c), Table 2, Cond. H • FDA 21 CFR 176.170(c), Table 2, Cond. C • FDA 21 CFR 176.170(c), Table 2, Cond. F • FDA 21 CFR 176.170(c), Table 2, Cond. G • FDA 21 CFR 176.170(c), Table 2, Cond. D • FDA 21 CFR 177.1520(c) 1.1a
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Extrusion • Fiber (Spinning) Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25 g/10 min	25 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.014 in/in	1.4 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ³			ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	5000 psi	34.5 MPa	
Tensile Elongation ³			ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	9.0 %	9.0 %	
Flexural Modulus - 1% Secant ⁴			ASTM D790A
0.126 in (3.20 mm), Injection Molded	235000 psi	1620 MPa	



Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact ⁵ 73°F (23°C), 0.126 in (3.20 mm), Injection Molded	0.50 ft·lb/in	27 J/m	ASTM D256
Notched Izod Impact (Area) ⁵ 73°F (23°C), 0.126 in (3.20 mm), Injection Molded	1.24 ft·lb/in ²	2.60 kJ/m ²	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	226 °F	108 °C	ASTM D648

Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² Typical properties: these are not to be construed as specifications.
- ³ Type I, 2.0 in/min (51 mm/min)
- ⁴ Type I, 0.050 in/min (1.3 mm/min)
- ⁵ Type I

