

Pinnacle PP 1525

Polypropylene Homopolymer

Pinnacle Polymers

Message:

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 polypropylene, as marketed by Pinnacle Polymers, in natural, uncolored pellet form complies with appropriate requirements of CFR Title 21, Part 177, Subpart B, Section 177.1520 (c) 1.1a entitled "Olefin Polymers" of the Food Additives Amendment of 1958 to the United States Food, Drug and Cosmetic Act of 1938.

General Information	
Features	Food Contact Acceptable
	Good Color Stability
	Good Processing Stability
	Homopolymer
	Resilient
Uses	Fibers
Agency Ratings	FDA 21 CFR 177.1520(c) 1.1a
Forms	Pellets
Processing Method	Extrusion
	Fiber (Spinning) Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	34.5	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (3.20 mm, Injection Molded)	1620	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C, 3.20 mm, Injection Molded)	27	J/m	ASTM D256

Notched Izod Impact (Area) ⁵ (23°C, 3.20 mm, Injection Molded)	2.60	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	108	°C	ASTM D648
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 1.3 mm/min		
4.	Type I		
5.	Type I		

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