

Pinnacle PP 1703

Polypropylene Homopolymer

Pinnacle Polymers

Message:

3.5 MELT FLOW HOMOPOLYMER FOR STRETCHED TAPE APPLICATIONS

Pinnacle Polymers Polypropylene 1703 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 woven products used for carpet backing, sacking, industrial and geotextile fabrics.

The 1703 product provides:

- Excellent color and processing stability
- Resistance to gas fading
- Low water carry-over
- 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		
	Gas-fading Resistant		
	Good Color Stability		
	Good Processing Stability		
	Homopolymer		
	Low Water Carryover		
Uses	Carpet Backing		
	Industrial Applications		
	Tape		
	Textile Applications		
Agency Ratings	FDA 21 CFR 177.1520(c) 1.1a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	35.9	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	10	%	ASTM D638
Flexural Modulus - 1% Secant ³ (3.20 mm, Injection Molded)	1660	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact ⁴ (23°C, 3.20 mm, Injection Molded)	37	J/m	ASTM D256
Notched Izod Impact (Area) ⁵ (23°C, 3.20 mm, Injection Molded)	3.70	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	114	°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

