



# Pinnacle PP 1635

## Pinnacle Polymers - Polypropylene Homopolymer

Tuesday, November 5, 2019

### General Information

#### Product Description

35 MELT FLOW HOMOPOLYMER

Pinnacle Polymers Polypropylene 1635 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 low denier per filament yarns; extrusion coating applications; and specialty cast embossed films.

The 1635 product provides:

- Excellent color and processing stability
- Superior fiber spinning characteristics
- Resistance to gas fading
- Excellent component for extrusion coating
- Narrow Molecular Weight Distribution

Pinnacle's 1635 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		
Availability	• Europe	• North America	
Features	• Food Contact Acceptable • Gas-fading Resistant	• Good Color Stability • Good Processing Stability	• Homopolymer • Narrow Molecular Weight Distribution
Uses	• Cast Film	• Coating Applications	• Yarn
Agency Ratings	• FDA 21 CFR 176.170(c), Table 2, Cond. B • FDA 21 CFR 176.170(c), Table 2, Cond. C • FDA 21 CFR 176.170(c), Table 2, Cond. D	• FDA 21 CFR 176.170(c), Table 2, Cond. E • 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. H • FDA 21 CFR 177.1520(c) 1.1a
Forms	• Pellets		
Processing Method	• Cast Film	• Extrusion Coating	• Fiber (Spinning) Extrusion

#### ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.012	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, 0.126 in, Injection Molded)	5000	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 0.126 in, Injection Molded)	10	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (0.126 in, Injection Molded)	225000	psi	ASTM D790A

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Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>4</sup> (73°F, 0.126 in, Injection Molded)	0.50	ft·lb/in	ASTM D256
Notched Izod Impact (Area) <sup>4</sup>			ASTM D256
73°F, 0.126 in, Injection Molded	1.24	ft·lb/in <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	210	°F	ASTM D648

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Type I, 2.0 in/min

<sup>3</sup> Type I, 0.050 in/min

<sup>4</sup> Type I