

# 1635AF

## DEVELOPMENTAL DATA\*\*

### 35 MELT FLOW HOMOPOLYMER

#### Product Description and Applications:

Pinnacle Polymers Polypropylene 1635AF 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 injection molding; the flow properties should be of particular benefit in the production of thin-walled articles. It contains no nucleators, antistats or animal derivatives.

Potential applications include: healthcare/medical packaging, labware, containers and thin-wall articles in general.

#### Features:

The 1635AF highlights:

- Heat Sterilizable (autoclavable)
- Contains no animal derivatives
- Excellent color and processing stability
- Low Extractables

Pinnacle’s 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 entitled “Olefin Polymers” of the Food Additives Amendment of 1958 to the United States Food, Drug and Cosmetic Act of 1938.

## Typical Properties\*\*

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	35 g/10 min.	35 g/10 min.	D1238 <sup>1</sup>
Density at 23°C	0.9 g/cm <sup>3</sup>	900 kg/m <sup>3</sup>	D1505
Tensile Yield Strength, @ 51mm/min	5000 psi	34.5 MPa	D638
Yield Elongation, @ 51mm/min	10%	10%	D638
Flexural Modulus (1% secant) @ 1.27 mm/in	225,000 psi	1552 MPa	D790A <sup>2</sup>
Notched Izod impact strength, at 73°F/23°C	0.5 ft-lb/in	27 J/m	D256 <sup>2</sup>

<sup>1</sup>Condition L 230/2.16

<sup>2</sup>ASTM Type I specimen, 3.2 mm thick (injection molded per ASTM D4101-92a)

\*\*Developmental data - A statistically valid sample size does not exist to determine the average physical properties. These data may change as additional results become available.

UNIPOL is a trademark of Union Carbide Corporation

Technical data contained herein is furnished without fee or obligation, and is given and accepted at recipient’s sole risk. Since conditions of use may vary and are beyond our control. Pinnacle Polymers makes no representation about and is not responsible or liable for the accuracy or reliability of data, nor for toxicological effects, industrial hygiene requirements, or other matters associated with particular application of any product described herein. Pinnacle Polymers disclaims any warranty, expressed or implied, regarding the information contained herein, including the implied warranty of merchantability of fitness for a particular purpose. 091514.