

1703

3.5 MELT FLOW HOMOPOLYMER FOR STRETCHED TAPE APPLICATIONS

Product Description and 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.

Features:

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.

Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	3.5 g/10 min.	3.5 g/10 min.	D1238 ¹
Density at 23°C	0.9 g/cm ³	900 kg/m ³	D1505
Shrinkage	0.015 in/in	0.015 mm/mm	D955
Heat Deflection Temperature at 0.455 MPa (66psi)	238°F	114°C	D648
Tensile yield strength, at 51 mm/min	5200 psi	35.9 MPa	D638 ²
Yield elongation, at 51 mm/min	10%	10%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	240,000 psi	1655 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	0.7 ft-lb/in	37 J/m 3.7 kJ/m ²	D256 ²

¹Condition L 230/2.16

²ASTM Type I specimen, 3.2 mm thick (injection molded per ASTM D4101-92a) 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. .012714