

## Product Data

### TITANPRO PD943 FOR WATER QUENCHED BLOWN FILM

<b>CHARACTER</b>	<p>Polypropylene homopolymer.</p> <p>The base resin meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520(a)(1)(i) and (c)1.1a. The adjuvant meet their respective FDA regulations and 21 CFR 177.1520(b). In summary, this resin meets the FDA criteria covering safe use of polyolefin articles and component of articles intended for food contact use.</p> <p>TSCA Registry: CAS# 9003-07-0</p>
<b>APPLICATIONS</b>	<p>Bags for hosiery, shirts and other textiles.</p> <p>Food packaging for fresh fruits and produce.</p>
<b>ADVANTAGES</b>	<p>Good optical properties.</p> <p>Excellent stiffness.</p> <p>High slip development and good openability.</p>
<b>FABRICATION</b>	<p>Equipment -general water quench blown film machines.</p> <p>Techniques - standard processing. Extrusion and water bath conditions can be varied to obtain the desired optical and mechanical film properties.</p>

<u>TYPICAL RESIN PROPERTIES</u> <sup>(a)</sup>	<u>UNIT</u>	<u>TITANPRO PD943</u>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt Flow Rate, at 230°C	g/10 min	<b>11</b>	D1238
Density	g/cm <sup>3</sup>	<b>0.9</b>	D1505
Tensile Strength at Yield	kg/cm <sup>2</sup>	<b>360</b>	D638
Elongation at Yield	%	<b>12</b>	D638
Flexural Modulus	kg/cm <sup>2</sup>	<b>17000</b>	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	<b>3.3</b>	D256A
Heat Deflection Temperature at 4.6 kg/cm <sup>2</sup>	°C	<b>95</b>	D648
Rockwell Hardness	R scale	<b>94</b>	D785A
Water absorption after 24 hours	%	<b>0.02</b>	D570

(a) Values shown are average and are not to be considered as specifications.

(b) ASTM test methods are latest under the Society's current procedures.

Shrinkage : 1.3 - 1.4% depending on the product wall thickness and molding parameters.

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