

# Product Data

## TITANPRO PM903

*Developmental Data*

### FOR THIN WALLED INJECTION MOLDING

<b>CHARACTER</b>	<p>Polypropylene homopolymer. Titanpro PM903 is a high flow grade which complies with U.S. Food and Drug Administration (FDA) regulation as specified in 21 CFR 177.1520(a)(1)(i) and (c) 1.1a. TSCA Registry: CAS# 9003-07-0</p>
<b>APPLICATIONS</b>	<p>Thin walled injection molding (TWIM) articles. Disposable containers and lids, party plates, pen barrels. Compounding.</p>
<b>ADVANTAGES</b>	<p>Low molded in stress. Good clarity &amp; good balance of stiffness and impact strength. Specifically designed for lower barrel temperature to achieve shorter cycle time. Low warpage.</p>
<b>FABRICATION</b>	<p>Equipment - ram or screw injection machines. Techniques - standard processing. Recommended barrel temperature between 200 to 250 °C with short residence time.</p>

<b><u>TYPICAL RESIN PROPERTIES</u></b> <sup>(a)</sup>	<b><u>UNIT</u></b>	<b><u>TITANPRO PM903</u></b>	<b><u>ASTM METHOD</u></b> <sup>(b)</sup>
Melt Flow Rate, at 230°C	g/10 min	<b>80</b>	D1238
Density	g/cm <sup>3</sup>	<b>0.9</b>	D1505
Tensile Strength at Yield	kg/cm <sup>2</sup>	<b>350</b>	D638
Elongation at Yield	%	<b>10</b>	D638
Flexural Modulus	kg/cm <sup>2</sup>	<b>17500</b>	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	<b>2</b>	D256A
Heat Deflection Temperature at 4.6 kg/cm <sup>2</sup>	°C	<b>120</b>	D648
Rockwell Hardness	R scale	<b>108</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 : 1.4 - 1.5% depending on the product wall thickness and molding parameters.

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product combination for their own purposes. Unless otherwise agreed in writing, we sell products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

D01