

# Product Data

## TITANPRO PM903 FOR THIN WALLED INJECTION MOLDING

<b>CHARACTER</b>	Polypropylene homopolymer. Titanpro PM903 is a high flow grade which complies with the 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
<b>APPLICATIONS</b>	Thin walled injection molding (TWIM) articles, disposable containers and lids, party plates, pen barrels, compounding.
<b>ADVANTAGES</b>	Low molded in stress, good clarity & good balance of stiffness and impact strength, specifically designed for lower barrel temperature to achieve shorter cycle time, low warpage.
<b>FABRICATION</b>	Equipment - ram or screw injection machines. Techniques - standard processing. Recommended barrel temperature between 200 to 250°C with short residence time.



<u>TYPICAL RESIN PROPERTIES</u> <sup>(a)</sup>	<u>UNIT</u>	<u>PM903</u>	<u>ASTM METHOD</u> <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.

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