

## Product Data

### TITANPRO PM803 FOR THIN WALLED INJECTION MOLDING

<b>CHARACTER</b>	<p>Polypropylene homopolymer. Titanpro PM803 is a high flow and also a controlled rheology grade. 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 FDS criteria covering safe use of polyolefin articles and component of articles intended for food contact use. 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.</p>
<b>ADVANTAGES</b>	<p>Low molded in stress. Good clarity. Good balance of stiffness and impact strength. Specifically designed for short cycle time. Low warpage.</p>
<b>FABRICATION</b>	<p>Equipment - ram or screw injection machines. Techniques - standard processing.</p>

<u>TYPICAL RESIN PROPERTIES</u> <sup>(a)</sup>	<u>UNIT</u>	<u>TITANPRO PM803</u>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt Flow Rate, at 230°C	g/10 min	<b>50</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>18000</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 : 1.3 - 1.4% depending on the product wall thickness and molding parameters.

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