



Product Data

TITANPRO PM803 FOR THIN WALLED INJECTION MOLDING

CHARACTER	Polypropylene homopolymer. Titanpro PM803 is a high flow and also a controlled rheology 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
APPLICATIONS	Thin walled injection molding (TWIM) articles. Disposable containers and lids, party plates, pen barrels.
ADVANTAGES	Low molded in stress, good clarity, good balance of stiffness and impact strength, specifically designed for short cycle time, low warpage.
FABRICATION	Equipment - ram or screw injection machines. Techniques - standard processing.



<u>TYPICAL RESIN PROPERTIES</u> ^(a)	<u>UNIT</u>	<u>PM803</u>	<u>ASTM METHOD</u> ^(b)
Melt Flow Rate, at 230°C	g/10 min	50	D1238
Density	g/cm ³	0.9	D1505
Tensile Strength at Yield	kg/cm ²	350	D638
Elongation at Yield	%	10	D638
Flexural Modulus	kg/cm ²	18000	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	2	D256A
Heat Deflection Temperature at 4.6 kg/cm ²	°C	120	D648
Rockwell Hardness	R scale	108	D785A
Water absorption after 24 hours	%	0.02	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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