TITANPRO® PM803

Polypropylene Homopolymer

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

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
APPLICATIONS:
Thin walled injection molding (TWIM) articles and disposable containers and lids, party plates, pen barrels.
Characteristics:
Low molded in stress, good clarity, good balance of stiffness and impact strength, specifically designed for short cycle time and low warpage.
FABRICATION:
Equipment - ram or screw injection machines and techniques - standard processing.

General Information			
Features	Balanced Stiffness/Toughness Fast Molding Cycle Food Contact Acceptable Good Impact Resistance Good Stiffness Homopolymer Low Warpage Medium Clarity		
Uses	Containers Lids Thin-walled Parts Writing Instruments		
Agency Ratings	FDA 21 CFR 177.1520(a) 1 (i) FDA 21 CFR 177.1520(b) FDA 21 CFR 177.1520(c) 1.1a		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength (Yield)	34.3	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	1770	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	20	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	120	°C	ASTM D648

Recommended distributors for this material

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