

Lotte Chemical Titan TITANPRO[®] PM803 Polypropylene homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

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 adjuvants meet their respective FDA regulations and 21 CFR 177.1520(b). In summary, this resin meets the FDA criteria covering safe use of polyolefin articles and component of articles intended for food contact use. 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. Information provided by Titan Chemicals CAS# 9003-07-0

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lotte-Chemical-Titan-TITANPRO-PM803-Polypropylene-homopolymer.php

Physical Properties	Metric	English	Comments
Base Resin Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Water Absorption	0.020 %	0.020 %	after 24 hrs; ASTM D570
Base Resin Melt Index	50 g/10 min @Temperature 230 °C	50 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785A
Tensile Strength, Yield	34.3 MPa	4970 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus	1.77 GPa	257 ksi	ASTM D790B
Izod Impact, Notched	0.196 J/cm	0.367 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ASTM D648

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