

Lotte Chemical Titan TITANPRO[®] SM840 Polypropylene impact copolymer

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

Material Notes:

Titanpro[®] SM840 is an extra high flow material. The base resin meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520(a)(3)(i) and (c)3.1a. 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: Automotive parts, appliances, house-wares, washing machine tub, large flat trays, thin walled articles, flower pots, furniture. Advantages: Easy processing, permitting wider latitude in design. Good toughness at low temperature. Good surface finish and color. Low molded in stress. Excellent heat stability. Fabrication: Equipment - ram or screw injection machines. Techniques - standard processing. Information provided by Titan Chemicals CAS# 9010-79-1

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lotte-Chemical-Titan-TITANPRO-SM840-Polypropylene-impact-copolymer.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	35 g/10 min @Temperature 230 °C	35 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785A
Tensile Strength, Yield	27.4 MPa	3970 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus	1.32 GPa	191 ksi	ASTM D790B
Izod Impact, Notched	0.784 J/cm	1.47 ft-lb/in	ASTM D256A
Dart Drop, Total Energy	23.5 J @Temperature -29.0 °C	17.3 ft-lb @Temperature -20.2 °F	Internal Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	ASTM D648

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