

Lotte Chemical Titan TITANPRO® SM850 Polypropylene impact copolymer

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

Material Notes:

Titanpro® SM850 is a nucleated 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-ware, washing machine tub and parts, large flat trays, thin walled containers. 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-SM850-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	45 g/10 min @Temperature 230 °C	45 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785A
Tensile Strength, Yield	24.5 MPa	3550 psi	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Modulus	1.27 GPa	184 ksi	ASTM D790B
Izod Impact, Notched	1.18 J/cm	2.21 ft-lb/in	ASTM D256A
Dart Drop, Total Energy	21.6 J @Temperature -29.0 °C	15.9 ft-lb @Temperature -20.2 °F	Internal Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ASTM D648

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