

Lotte Chemical Titan TITANPRO[®] PD943 Polypropylene homopolymer

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

Material Notes:

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: Bags for hosiery, shirts and other textiles. Food packaging for fresh fruits and produce. Advantages: Good optical properties. Excellent stiffness. High slip development and good open-ability. Fabrication: Equipment - general water quench blown film machines. Techniques - standard processing. Extrusion and water bath conditions can be varied to obtain the desired optical and mechanical film properties 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-PD943-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	11 g/10 min @Temperature 230 °C	11 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	94	94	ASTM D785A
Tensile Strength, Yield	35.3 MPa	5120 psi	ASTM D638
Elongation at Yield	12 %	12 %	ASTM D638
Flexural Modulus	1.67 GPa	242 ksi	ASTM D790B
Izod Impact, Notched	0.324 J/cm	0.607 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	ASTM D648

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