Lotte Chemical Titan TITANPRO® SM461 Polypropylene random copolymer

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

Material Notes:

Titanpro® SM461 is formulated with an antiblocking and slip agents package. 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: Heat sealable monolayer film. Heat sealable layer in laminated or co-extruded structures. Quality packaging application.Advantages: Low heat sealing temperature. Good process-ability. Excellent gloss and clarity. Good impact strength at low temperature.Fabrication: Equipment - general film cast machines. Techniques - standard processing. Information provided by Titan ChemicalsCAS# 9010-79-1

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lotte-Chemical-Titan-TITANPRO-SM461-Polypropylene-random-copolymer.php

Physical Properties	Metric	English	Comments
Base Resin Density	0.900 g/cc	0.0325 lb/in³	ASTM D1505
Water Absorption	0.020 %	0.020 %	after 24 hrs; ASTM D570
Base Resin Melt Index	7.0 g/10 min @Temperature 230 °C	7.0 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	67	67	ASTM D785A
Tensile Strength, Yield	25.5 MPa	3700 psi	ASTM D638
Elongation at Yield	12 %	12 %	ASTM D638
Flexural Modulus	0.932 GPa	135 ksi	ASTM D790B
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM D648

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