

Lotte Chemical Titan TITANPRO® 6331 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: Closures, house wares, toys, games, pill boxes, containers, healthcare devices, syringe barrel, pen cap and pen body. Advantages: Good process-ability. High stiffness. Good heat deflection temperature. Microwaveable for food reheating purposes. 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-6331-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	14 g/10 min @Temperature 230 °C	14 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785A
Tensile Strength, Yield	35.3 MPa	5120 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus	1.72 GPa	249 ksi	ASTM D790B
Izod Impact, Notched	0.255 J/cm	0.478 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	99.0 °C	210 °F	ASTM D648

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