

# TITANPRO® PD943

Polypropylene Homopolymer

Lotte Chemical Titan (M) Sdn. Bhd.

## Message:

Polypropylene homopolymer. 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 adjuvant 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. TSCA Registry: CAS# 9003-07-0

### APPLICATIONS:

Bags for hosiery, shirts and other textiles and food packaging for fresh fruits and produce.

### Characteristics:

Good optical properties, excellent stiffness and high slip development and good openability.

### FABRICATION:

Equipment -general water quench blown film machines and techniques - standard processing. Extrusion and water bath conditions can be varied to obtain the desired optical and mechanical film properties.

General Information			
Features	Food Contact Acceptable Good Stiffness Homopolymer Opticals		
Uses	Bags Film Food Packaging		
Agency Ratings	FDA 21 CFR 177.1520(a) 1 (i) FDA 21 CFR 177.1520(b) FDA 21 CFR 177.1520(c) 1.1a		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	94		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.3	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	1670	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	95.0	°C	ASTM D648

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