

TITANPRO® 6531M

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:

Slit tape and monofilament for rope, twine, yarn and industrial fabrics.

Characteristics:

Outstanding processability, Maximum bubble stability for slit tape production by the tubular process, Good melt stability, Low color, and Low taste & odor.

FABRICATION:

Equipment - general extrusion machines and Techniques - standard processing for tubular and flat die tapes.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High Melt Stability		
	Homopolymer		
	Low to No Odor		
	Low to No Taste		
Uses	Fabrics		
	High Tenacity Flat Yarn		
	Industrial Applications		
	Monofilaments		
	Rope		
	Twine		
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	Extrusion		
	Filament Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (R-Scale)	91		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.3	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	1670	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	49	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	86.0	°C	ASTM D648

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