TITANPRO® PM655

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 and thermoformed articles.
Characteristics:
Outstanding processability, maximum bubble stability for slit tape production by the tubular process, good melt stability and superior fiber strength, low color, low taste & odor, no plate-out problems on die lips or chill rolls and good heat-aging stability in yarn and fabric.
FABRICATION:
Equipment - general extrusion and techniques - standard processing for tubular and flat die tapes.

General Information	
UL YellowCard	E166760-224892
Features	Food Contact Acceptable
	Good Heat Aging Resistance
	Good Organoleptic Properties
	Good Processability
	High Melt Stability
	High Strength
	Homopolymer
	Low to No Odor
	Low to No Taste
Uses	Fabrics
	Fibers
	High Tenacity Flat Yarn
	Industrial Applications
	Monofilaments
	Rope
	Tape
	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	Film Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.7	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	95		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	35.3	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	54	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	95.0	°C	ASTM D648

Recommended distributors for this material

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