TITANPRO® SM850

Polypropylene Impact Copolymer

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

Polypropylene impact copolymer. Titanpro SM850 is a nucleated extra high flow material. 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 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# 9010-79-1
APPLICATIONS:
Automotive parts, housewares, washing machine tub and parts, large flat trays, thin walled containers.
Characteristics:
Easy processability, permitting wider latitude in design, good toughness at low temperature, good surface finish and color, low molded in stress and excellent heat stability.
FABRICATION:
Equipment - ram or screw injection machines and techniques - standard processing.

General Information	
UL YellowCard	E166760-224899
Additive	Nucleating Agent
Features	Food Contact Acceptable Good Colorability Good Processability Good Surface Finish High Flow Impact Copolymer Low Temperature Toughness Nucleated
Uses	Appliance Components Automotive Applications Household Goods Support Trays Thin-walled Containers
Agency Ratings	FDA 21 CFR 177.1520(a) 3 (i) FDA 21 CFR 177.1520(b) FDA 21 CFR 177.1520(c) 3.1a
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	45	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.020	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	25.5	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	1470	MPa	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	69	J/m	ASTM D256A
Instrumented Dart Impact (-29°C)	21.6	J	Internal Method
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	100	°C	ASTM D648

Recommended distributors for this material

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