

TITANPRO® SM240

Polypropylene Impact Copolymer
Lotte Chemical Titan (M) Sdn. Bhd.

Message:

Polypropylene impact copolymer. Titanpro SM240 is a 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, appliances, housewares, large flat trays, thin complex parts.
Characteristics:
Easy processing, permitting wider latitude in design, good toughness at low temperature, good surface finish and color, low built-in-stress and excellent heat stability.
FABRICATION:
Equipment - ram or screw injection machines and techniques - standard processing.

General Information			
UL YellowCard	E166760-224894		
Features	Food Contact Acceptable		
	Good Color Stability		
	Good Processability		
	Good Surface Finish		
	Good Toughness		
	High Flow		
	Impact Copolymer		
	Low Temperature Toughness		
Uses	Appliances		
	Automotive Applications		
	Household Goods		
	Support Trays		
	Thin-walled Parts		
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/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	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)	27.5	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	1320	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256A
Instrumented Dart Impact (-29°C)	27.5	J	Internal Method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648

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