

TITANPRO® SM388

Polypropylene Random Copolymer

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

TITANPRO® SM388 is a Polypropylene Random Copolymer (PP Random Copolymer) material. It is available in North America for injection molding or injection stretch blow molding.

Important attributes of TITANPRO® SM388 are:

- Clarity
- Copolymer
- Food Contact Acceptable
- Good Aesthetics
- Impact Resistant
- Typical applications include:
 - Food Contact Applications
 - Bottles
 - Containers
 - Engineering/Industrial Parts
 - Household Applications

General Information			
UL YellowCard	E166760-100447975		
Features	Food Contact Acceptable		
	Good Surface Finish		
	High Clarity		
	High Rigidity		
	Medium Impact Resistance		
	Random Copolymer		
Uses	Bottles		
	Containers		
	Household Goods		
	Medical/Healthcare Applications		
	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		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
	Injection Stretch Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.3 to 1.4	%	
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	89		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26.5	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus	1080	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.0	°C	ASTM D648
Additional Information	Nominal Value		
CAS Number	9010-79-1		

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