

Product Data

TITANPRO SM388 FOR THIN WALLED, HIGH CLARITY INJECTION MOLDING

CHARACTER	Polypropylene random copolymer. Titanpro SM388 is a superb clarity grade designed for high transparency articles. 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	Superb clarity ISBM articles, baby bottles, drinking containers, housewares, healthcare devices, storage containers.
ADVANTAGES	Superb clarity. Good balance of rigidity and impact resistance. Good surface finish and color. Suitable for hot filling.
FABRICATION	Equipment - injection stretch blow molding (ISBM) machine, injection molding machine. Techniques - standard processing.

<u>TYPICAL RESIN PROPERTIES</u> ^(a)	<u>UNIT</u>	<u>TITANPRO SM388</u>	<u>ASTM METHOD</u> ^(b)
Melt Flow Rate, at 230°C	g/10 min	10.5	D1238
Density	g/cm ³	0.9	D1505
Tensile Strength at Yield	kg/cm ²	270	D638
Elongation at Yield	%	13	D638
Flexural Modulus	kg/cm ²	11000	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	6	D256A
Heat Deflection Temperature at 4.6 kg/cm ²	°C	76	D648
Rockwell Hardness	R scale	89	D785A
Water absorption after 24 hours	%	0.02	D570

(a) Values shown are average and are not to be considered as specifications.

(b) ASTM test methods are latest under the Society's current procedures.

Shrinkage : 1.3 - 1.4% depending on the product wall thickness and molding parameters.

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