LOTTE CHEMICAL TITAN

Product Data

TITANPRO SM840
FOR INJECTION MOLDING

CHARACTER

Polypropylene impact copolymer.
Titanpro SM840 is an 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, appliances, housewares, washing machine tub, large flat trays, thin walled articles, flower pots, furniture.

ADVANTAGES

Easy processability, permitting wider latitude in design.
Good toughness at low temperature.
Good surface finish and color.
Low molded in stresses.
Excellent heat stability.

FABRICATION

Equipment - ram or screw injection machines.
Techniques - standard processing.

TYPICAL RESIN PROPERTIES [(a)]	UNIT	TITANPRO SM840	ASTM METHOD [(b)]
Melt Flow Rate, at 230°C	g/10 min	**35**	D1238
Density	g/cm³	**0.9**	D1505
Tensile Strength at Yield	kg/cm²	**280**	D638
Elongation at Yield	%	**10**	D638
Flexural Modulus	kg/cm²	**13500**	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	**8**	D256A
Heat Deflection Temperature at 4.6 kg/cm²	°C	**90**	D648
Rockwell Hardness	R scale	**80**	D785A
Drop weight impact at -29°C	kg.cm	**240**	Internal Method
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.

R00

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