Product Data

TITANPRO SM850
FOR INJECTION MOLDING

CHARACTER Polypropylene impact copolymer
Titanpro SM850 is a nucleated extra high flow material which complies with the U.S. Food and Drug Administration (FDA) regulation as specified in 21 CFR 177.1520(a)(3)(i) and (c)3.1a.
TSCA Registry: CAS# 9010-79-1

APPLICATIONS Automotive parts, housewares, washing machine tub and parts, large flat trays, thin walled containers.

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

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

TYPICAL RESIN PROPERTIES [a]	UNIT	SM850	ASTM METHOD [b]
Melt Flow Rate, at 230°C	g/10 min	**45**	D1238
Density	g/cm³	**0.9**	D1505
Tensile Strength at Yield	kg/cm²	**260**	D638
Elongation at Yield	%	**10**	D638
Flexural Modulus	kg/cm²	**15000**	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	**7**	D256A
Heat Deflection Temperature at 4.6 kg/cm²	°C	**100**	D648
Rockwell Hardness	R scale	**80**	D785A
Drop weight impact at -29°C	kg.cm	**220**	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.

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