

# Product Data

*Developmental Data*

## TITANPRO SH311 FOR INJECTION MOLDING

<b>CHARACTER</b>	High impact polypropylene copolymer.  This resin is not designed and not intended for food, personal care, medical and pharmaceutical. For such kind of applications, users are advised to make their own tests to determine the safety and suitability of the product or product combination for their own purposes.
<b>APPLICATIONS</b>	Battery casing, industrial pails, pallets.
<b>ADVANTAGES</b>	Medium-high flow. Excellent balance between flow, impact strength and stiffness. Excellent heat stability.
<b>FABRICATION</b>	Equipment - ram or screw injection machines. Techniques - standard processing.

<u>TYPICAL RESIN PROPERTIES</u> <sup>(a)</sup>	<u>UNIT</u>	<u>SH311</u>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt Flow Rate, at 230°C	g/10 min	7	D1238
Density	g/cm <sup>3</sup>	0.9	D1505
Tensile Strength at Yield	kg/cm <sup>2</sup>	190	D638
Elongation at Yield	%	8	D638
Flexural Modulus	kg/cm <sup>2</sup>	10000	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	>50	D256A
Heat Deflection Temperature at 4.6 kg/cm <sup>2</sup>	°C	80	D648
Rockwell Hardness	R scale	70	D785A

(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 : 1.1 - 1.6% depending on the product wall thickness and molding parameters.

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