

# Product Data

Developmental Data

## TITANPRO SM668

### FOR INJECTION MOLDING AND INJECTION STRETCH BLOW MOLDING

<b>CHARACTER</b>	Polypropylene random copolymer. SM668 is a clarified grade designed for high transparency articles 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
<b>APPLICATIONS</b>	High transparent thin walled containers, storage containers, large articles, housewares. High clarity oriented PP bottles for hot filled applications, baby feeding bottles, toiletries and detergent packaging, moisture sensitive packaging etc.
<b>ADVANTAGES</b>	Excellent clarity. Good balance of rigidity and impact resistance. Excellent moisture barrier. Suitable for hot filling and thin walled products.
<b>FABRICATION</b>	Equipment - injection molding machine, injection stretch blow molding (ISBM) machine. Techniques - standard processing. Please refer to our Technical Service Department for further information on processing condition.

<b>TYPICAL RESIN PROPERTIES</b> <sup>(a)</sup>	<b>UNIT</b>	<b>SM668</b>	<b>ASTM METHOD</b> <sup>(b)</sup>
Melt Flow Rate, at 230°C	g/10 min	<b>20</b>	D1238
Density	g/cm <sup>3</sup>	<b>0.9</b>	D1505
Tensile Strength at Yield	kg/cm <sup>2</sup>	<b>300</b>	D638
Elongation at Yield	%	<b>10</b>	D638
Flexural Modulus	kg/cm <sup>2</sup>	<b>11000</b>	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	<b>5</b>	D256A
Heat Deflection Temperature at 4.6 kg/cm <sup>2</sup>	°C	<b>85</b>	D648
Rockwell Hardness	R scale	<b>85</b>	D785A
Water absorption after 24 hours	%	<b>0.02</b>	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.

#### NOTES:

- Do not mix SM668 with other clarified PP random copolymers during processing, including but not limited to virgin and/or recycled resins, scrap, rejected product, sprue & runner, trimmed part etc.**
- Please ensure minimum melt temperature of 230°C to optimize the clarity of final article.**

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