



Product Data

Developmental Data

TITANPRO SM668

FOR INJECTION MOLDING AND INJECTION STRETCH BLOW MOLDING

CHARACTER	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
APPLICATIONS	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.
ADVANTAGES	Excellent clarity. Good balance of rigidity and impact resistance. Excellent moisture barrier. Suitable for hot filling and thin walled products.
FABRICATION	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.

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

NOTES:

- 1. 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.**
- 2. Please ensure minimum melt temperature of 230°C to optimize the clarity of final article.**

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