

# Product Data

## TITANPRO SM498

### FOR INJECTION STRETCH BLOW MOLDING AND INJECTION MOLDING

<b>CHARACTER</b>	Polypropylene random copolymer. Titanpro SM498 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 clarity oriented PP bottles for hot filled applications, moisture sensitive packaging, baby feeding bottles, toiletries and detergent packaging, thin walled containers, storage containers, large articles, housewares.
<b>ADVANTAGES</b>	Excellent clarity, good balance of rigidity and impact resistance, excellent moisture barrier, cycle time reduction with low processing melt temperature, utilities cost saving, suitable for hot filling and thin walled products.
<b>FABRICATION</b>	Equipment - injection stretch blow molding (ISBM) machine, injection molding machine. Techniques - standard processing.

<u>TYPICAL RESIN PROPERTIES</u> <sup>(a)</sup>	<u>UNIT</u>	<u>SM498</u>	<u>ASTM METHOD</u> <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>13000</b>	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	<b>6</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.

#### UL Environment Claim Validation Mark

Titanpro® SM498 enables 10% of energy savings and 10% of reduced CO<sub>2</sub> emission on average for the production of clarified polypropylene injection molded articles.



10% Energy Savings



10% Reduced CO<sub>2</sub> Emission

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