

# Product Data

## TITANPRO SM798N

### FOR THIN WALLED, HIGH CLARITY INJECTION MOLDING

**CHARACTER** Polypropylene random copolymer.  
Titanpro SM798N is a high flow and clarified grade designed for high transparency thin wall articles.  
It 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 transparency thin walled containers, storage containers.

**ADVANTAGES** Excellent clarity, good surface finish and color, cycle time reduction with low processing melt temperature, good dimensional stability, good balance of rigidity and impact resistance.

**FABRICATION** Equipment - injection molding machine.  
Techniques - standard processing.

<u>TYPICAL RESIN PROPERTIES</u> <sup>(a)</sup>	<u>UNIT</u>	<u>SM798N</u>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt Flow Rate, at 230°C	g/10 min	<b>60</b>	D1238
Density	g/cm <sup>3</sup>	<b>0.9</b>	D1505
Tensile Strength at Yield	kg/cm <sup>2</sup>	<b>260</b>	D638
Elongation at Yield	%	<b>14</b>	D638
Flexural Modulus	kg/cm <sup>2</sup>	<b>10000</b>	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	<b>4</b>	D256A
Heat Deflection Temperature at 4.6 kg/cm <sup>2</sup>	°C	<b>70</b> <sup>(c)</sup>	D648
Rockwell Hardness	R scale	<b>94</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.

(c) Heat deflection temperature is based on 3mm thick specimen at 4.6 kg/cm<sup>2</sup> load.

Shrinkage : 1.1 - 1.3% depending on the product wall thickness and molding parameters.

#### UL Environment Claim Validation Mark

Titanpro® SM798N 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

LOTTE CHEMICAL TITAN (M) SDN. BHD.

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