



## Product Data

### TITANPRO SM798N

#### FOR THIN WALLED, HIGH CLARITY INJECTION MOLDING

|                     |                                                                                                                                                                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CHARACTER</b>    | Polypropylene random copolymer.<br>Titanpro SM798N is a high flow and clarified grade designed for high transparency thin wall articles.<br>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.<br>TSCA Registry: CAS# 9010-79-1 |
| <b>APPLICATIONS</b> | High transparency thin walled containers, storage containers.                                                                                                                                                                                                                                              |
| <b>ADVANTAGES</b>   | 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.                                                                                                                   |
| <b>FABRICATION</b>  | Equipment - injection molding machine.<br>Techniques - standard processing.                                                                                                                                                                                                                                |

| <b>TYPICAL RESIN PROPERTIES <sup>(a)</sup></b>        | <b>UNIT</b>        | <b>SM798N</b>            | <b>ASTM METHOD <sup>(b)</sup></b> |
|-------------------------------------------------------|--------------------|--------------------------|-----------------------------------|
| 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 <sup>(c)</sup></b> | 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**

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product combination for their own purposes. Unless otherwise agreed in writing, we sell products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

R00

**LOTTE CHEMICAL TITAN (M) SDN. BHD.** (Registration no. 198601005832 (154990-W))

Plant Location : PLO 312, Jalan Tembaga 4, Pasir Gudang Industrial Estate, 81700 Pasir Gudang, Johor Bahru, Malaysia.  
T: +607. 253 8888 W: WWW.LOTTECHEM.MY

**Titanex® • Titanlene® • Titanzex® • Titanpro® • Titanvene®**