



# TITAN PETCHEM (M) SDN. BHD.

(Co. No. 154990 W)  
(Formerly known as Titan PP Polymers (M) Sdn. Bhd.)

PLO 312, Jalan Tembaga 4,  
Pasir Gudang Industrial Estate,  
81700 Pasir Gudang,  
Johor Darul Takzim, Malaysia  
Tel: +607-2538888  
Fax: +607-2517881  
Telex: MA 60138 TITAN  
[www.titangroup.com](http://www.titangroup.com)

## Product Data

*Developmental Data*

### TITANPRO SM498

## FOR INJECTION STRETCH BLOW MOLDING AND INJECTION MOLDING

- CHARACTER** Polypropylene random copolymer.  
Titanpro SM498 is a clarified grade designed for high transparency articles.  
The base resin meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520(a)(3)(i) and (c)3.1a. The adjuvants meet their respective FDA regulations and 21 CFR 177.1520(b). In summary, this resin meets the FDA criteria covering safe use of polyolefin articles and component of articles intended for food contact use.  
TSCA Registry: CAS# 9010-79-1
- APPLICATIONS** High clarity oriented PP bottles for hot filled applications, moisture sensitive packaging, baby feed bottles, toiletries and detergent packaging, etc.  
High transparent thin walled containers, storage containers, large articles, housewares.
- ADVANTAGES** 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.
- FABRICATION** 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>TITANPRO 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 averages and are not to be considered as specifications.

(b) ASTM test methods are latest under the Society's current procedures.

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