



TITAN PETCHEM (M) SDN. BHD.

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

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Product Data

Developmental Data

TITANPRO SM198

FOR BLOW MOLDING, SHEET EXTRUSION AND INJECTION MOLDING

- CHARACTER** Polypropylene random copolymer.
Titanpro SM198 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** Injection and extrusion blow molding containers.
Extruded sheet for thermoformed containers and lids, etc.
Multilayer coextruded structures and sheet.
Injection molded articles requiring high toughness.
- ADVANTAGES** Superior clarity.
Low odor and taste.
Good rigidity and impact resistance.
Cycle time reduction with low processing melt temperature.
Utilities cost saving.
Process versatility.
Hot fillable.
- FABRICATION** Equipment - general injection, extrusion blow molding, sheet extrusion and thermoforming machines.
Techniques - standard processing.

<u>TYPICAL RESIN PROPERTIES</u> ^(a)	<u>UNIT</u>	<u>TITANPRO SM198</u>	<u>ASTM METHOD</u> ^(b)
Melt Flow Rate, at 230°C	g/10 min	1.6	D1238
Density	g/cm ³	0.9	D1505
Tensile Strength at Yield	kg/cm ²	290	D638
Elongation at Yield	%	14	D638
Flexural Modulus	kg/cm ²	11000	D790B
Notched Izod Impact Strength at 23°C	kg.cm/cm	34	D256A
Heat Deflection Temperature at 4.6 kg/cm ²	°C	78	D648
Rockwell Hardness	R scale	77	D785A
Water absorption after 24 hours	%	0.02	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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