



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 SM598 FOR THIN WALLED, HIGH CLARITY INJECTION MOLDING

- CHARACTER** Polypropylene random copolymer.
Titanpro SM598 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** DVD casing, high transparency thin walled containers, storage containers.
- ADVANTAGES** Excellent clarity.
Good surface finish and color.
Cycle time reduction with low processing melt temperature.
Utilities cost saving.
Good dimensional stability.
Good balance of rigidity and impact resistance.
- FABRICATION** Equipment - injection molding machine.
Techniques - standard processing.

<u>TYPICAL RESIN PROPERTIES</u> ^(a)	<u>UNIT</u>	<u>TITANPRO SM598</u>	<u>ASTM METHOD</u> ^(b)
Melt Flow Rate, at 230°C	g/10 min	30	D1238
Density	g/cm ³	0.9	D1505
Tensile Strength at Yield	kg/cm ²	300	D638
Elongation at Yield	%	12	D638
Flexural Modulus	kg/cm ²	12000	D790B
Notched Izod Impact Strength at 23°C	kg.cm/cm	5	D256A
Heat Deflection Temperature at 4.6 kg/cm ²	°C	88	D648
Rockwell Hardness	R scale	96	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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