

# Product 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 which 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** 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> <sup>(a)</sup>	<u>UNIT</u>	<u>SM598</u>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt Flow Rate, at 230°C	g/10 min	<b>30</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>12</b>	D638
Flexural Modulus	kg/cm <sup>2</sup>	<b>12000</b>	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	<b>5</b>	D256A
Heat Deflection Temperature at 4.6 kg/cm <sup>2</sup>	°C	<b>88</b>	D648
Rockwell Hardness	R scale	<b>96</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.

Shrinkage : 1.3 - 1.4% depending on the product wall thickness and molding parameters.

### UL Environment Claim Validation Mark

Titanpro® SM598 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

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