

Product Data

TITANPRO SM398 FOR INJECTION MOLDING

CHARACTER

Polypropylene random copolymer.

Titanpro SM398 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 adjuvant 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 transparency containers, housewares, stationeries.

ADVANTAGES

Excellent clarity.

Low blooming.

Good surface finish and color.

Cycle time reduction with low processing melt temperature.

Utilities cost saving.

Good balance of rigidity and impact resistance.

FABRICATION

Equipment - ram and screw injection machines.

Techniques - standard processing.

TYPICAL RESIN PROPERTIES (a)	<u>UNIT</u>	TITANPRO SM398	ASTM METHOD (b)
Melt Flow Rate, at 230°C	g/10 min	10.5	D1238
Density	g/cm³	0.9	D1505
Tensile Strength at Yield	kg/cm²	270	D638
Elongation at Yield	%	14	D638
Flexural Modulus	kg/cm²	10500	D790B
Notched Izod Impact Strength at 23°C	kg·cm/cm	6	D256A
Heat Deflection Temperature at 4.6 kg/cm ²	$^{\circ}\mathrm{C}$	80	D648
Rockwell Hardness	R scale	80	D785A
Water absorption after 24 hours	%	0.02	D570

⁽a) Values shown are average and are not to be considered as specifications.

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

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