

Product Information – PLANTIC™ HP Film

PLANTIC™ HP is a high barrier thermoformable, water dissolvable packaging material made predominantly from starch, using state of the art technology.

High Barrier Compostable packaging material



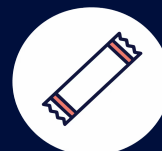
Made from high amylose starch, a renewable resource that will lower your packaging greenhouse gas emissions.



Clear, Grease proof, water dissolvable, aroma capture barrier, extruded film.



Can be formed into trays, compliments paper as a barrier that maintains recyclability.



Ultra-low gas barrier transmission providing extended shelf life.

APPLICATIONS

PLANTIC™ HP material is suitable for a variety of applications that require a compostable, renewable, dissolvable, barrier sheet or film.

QUALITY

Plantic manufacturing location in Australia is accredited to Food Safety System Certification 22000 (FSSC 22000).

FOOD COMPLIANCE APPROVAL.

This product meets the requirements of Federal Food, Drug and Cosmetics Act. This includes Food Types, as defined in 21CFR176.170(c), III, IVA, V, VIIA, VIII and IX for conditions of use E through G.

PRODUCT CHARACTERISTICS

Thickness Range	50µm to 450µm (+/- 5%) *
Roll Width Range	250-1000mm (+/- 1mm) *

* For any other thickness, width, or Colour requirements, please contact Plantic Technologies Ltd.

TECHNICAL DATA

Barrier Properties

Property	Test Method	Value	Units
Water activity of extruded sheet	PTM 03	<3*	g/m ² /24h @ 38°C and 90%RH
Oxygen Transmission Rate	ASTM F1927-98	<1.0*	cm ³ /m ² /24h @ 23°C, 50%RH

*Test results for 100µm PLANTIC™ HP.

*Correlation of measured values should be validated with actual shelf-life analysis.

Physical properties

Test results for 100µm PLANTIC™ HP

Property	Test Method	Value	Units
Density	ASTM D792	1.41	g/cm ³ (23°C and 50%RH)
Glass transition temperature (Tg)	TMA Method	120	°C
Modulus of elasticity	ASTM D882	2300-2400	MPa (23°C and 50%RH)
Tensile Strength	ASTM D882	45	MPa (23°C and 50%RH)
Strain at break	ASTM D882	>20	% (23°C and 50%RH)
Linear Mold Shrinkage	ASTM D955	0.01	mm/mm
Coefficient of friction, static	ASTM D1894	0.19	-
Coefficient of friction, dynamic	ASTM D1894	0.18	-
Haze	ASTM D1003	5 - 8	%
Optical transparency	ASTM D1003	95-98	%

Thermal Properties

Property	Value	Units
Thermoforming temperatures	90-110*	°C

* For more information on thermoforming conditions (heating and forming time, pressures etc....)
[please contact](#)

End of Life Properties

