

Product Information - PLANTIC™ PF Recyclable Paper

PLANTIC™ PF Paper is a 3-layer barrier paper for pouch making and converters who wish to provide next generation of high barrier coatings for recyclable paper packaging materials.

High Barrier packaging material for Paper



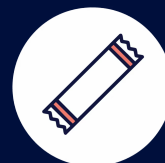
Made from high amylose starch, a renewable resource that will lower your packaging greenhouse gas emissions.



Paper/Plantic/Dry Sealant or Polyethylene with a variety of different weights and properties for small and large packages for food and non-food paper structures.



High sealing strength Paper for pouch making with zero "stickies," no wet strength paper whilst maintain grease proof, aroma, and recycling properties.



Ultra-low Gas Barrier Transmission providing extended shelf life, compliments high value ambient stable or fresh food products inhibiting gas exchanges.

APPLICATIONS

PLANTIC™ PF is suitable for a variety of Industrial applications for Fibre (Paper and Cardboard). This product is not designed for microwaveable and oven heat applications. Can be used on readily available Pouch making, filling, VFFS, HVFFS packaging machines.

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 FDA 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 (Plantic Layer)	8um-50um to a wide range of Papers
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 Vapour Transmission Rate	ASTM F149-01	<4	g/m ² /24h @ 38°C and 90%RH
Oxygen Transmission Rate	ASTM F1927-98	<2	cm ³ /m ² /24h @ 23°C, 50%RH

- * Test results for 450µm PLANTIC™ R+.
- * Correlation of measured values should be validated with actual shelf-life analysis.

Physical properties

Property	Test Method	Value	Units
Tensile Modulus	ASTM D882	2200-3100	MPa (23°C and 50%RH)
Tensile Strength	ASTM D882	32-45	MPa (23°C and 50%RH)
Elongation at break	ASTM D882	3-6	% (23°C and 50%RH)
Coefficient of Friction (Glass)	ASTM D1894	0.30-0.32	150mm/min
Coefficient of Friction (Glass)	ASTM D1894	0.31-0.34	150mm/min
Impact Strength	ASTM D3420	4	mN/µm (23°C and 50%RH)
Seal strength		>19	N/15mm

Thermal Properties

Property	Value	Units
Sealing temperature	110-200	°C

End of Life Properties

Property	Comment
GHGs	50% less than conventional multilayer structures
Recyclability Status*	Plantec PF curb side recyclable

*Subject to evolving country standards currently permitted in North America, Australia, and New Zealand.

Carbon Footprint - Weight Basis

