

Description

- Barrier Metalized PLA sealant film with standard metal adhesion
- Non GMO version available
- Combines barrier and sealant into one film, eliminating a layer of packaging
- Industrially Compostable: compliant to ASTM D6400 / EN 13432

Applications	Features
Flexible Packaging	Strong, airtight gusset and fin seals
Film	Excellent Grease Barrier Properties
	Excellent Aroma Barrier Properties
	Excellent Oxygen Barrier
	Excellent Moisture Barrier

Sustainability	
Bio-Based Content	90%
Compostability	Industrially Compostable

Physical Properties

Target Density	2.5 O. D.	AIMCAL TP-10	Optical Density
----------------	-----------	--------------	-----------------

Film Properties

Coefficient of Friction (CoF)	0.3	ASTM D1894	Static
Coefficient of Friction (CoF)	0.25	ASTM D1894	Kinetic
Film Thickness	30 μ m	ASTM D4321	
Oxygen Transmission Rate	2.3 $\text{cm}^3/\text{m}^2/24 \text{ hr}$	ASTM D3985	0% RH 23°C
Seal Initiation Temperature	74 °C		30 μ MUA to 30 μ MUL sealant side, single sided jaw heat, 0.25 seconds, 60 psi
Seal Strength	14.5 n/15mm		At 129°C, 30 μ MUA to 30 μ MUL sealant side, single sided jaw heat, 0.25 seconds, 60 psi
Tensile Modulus	2551 MPa	ASTM D882	Machine Direction
Tensile Modulus	2413 MPa	ASTM D882	Transverse Direction
Ultimate Strength	65.5 MPa	ASTM D882	Machine Direction
Ultimate Strength	58.6 MPa	ASTM D882	Transverse Direction
Water Vapour Transmission Rate	1.6 $\text{g}\cdot\text{mm}/\text{m}^2/\text{atm}/24 \text{ hr}$	ASTM F1249	90% RH 38°C
Yield	26.9 m^2/kg	ASTM D4321	

Processing Methods

Film Extrusion

Notes

Processing

- Barrier film should not be used as a monolayer
- Barrier film side needs to be protected by another film as part of a lamination – typically a print web
- Non barrier side is always food contact

By converting to our films the PLA film that is metallised acts as both the sealing & barrier layer in one film, eliminating the need for a separate sealing film. A second film is required for the outer printed web which will be reverse printed, when laminated to the MET PLA it protects the MET surface.

The property values represented in these data sheets do not constitute product specifications but typical values. Technical data and guidelines on any product or data sheet is presented for consideration and not intended as recommendation. All products sold are understood that the user will do their own testing to ensure success of their application.

The information contained within this data sheet is accurate to the best of our knowledge. Data is represented as typical property values, prior testing is always recommended.

Provision data

Estimated Properties

Properties identified as 'Estimated**' have been estimated from the generic equivalent. These are provided for comparative purposes and are not reflective of the actual grade as the relevant data is not available.

Storage Recommendations

Keep dry at ambient temperature. Store indoors avoiding a humid environment, heat and direct sunlight. Use material within 6 months after delivery date, in order to prevent possible material quality deterioration.

Information in this document is based on our current knowledge and experience and can vary by batch. It does not relieve customers of the responsibility to carry out their own tests and experiments nor do they imply any legally binding assurance. Customers are responsible to determine their freedom to operate to ensure that their products do not infringe any intellectual properties. Emnandi Bioplastics Ltd assumes no obligation or liability for the information in this document.