

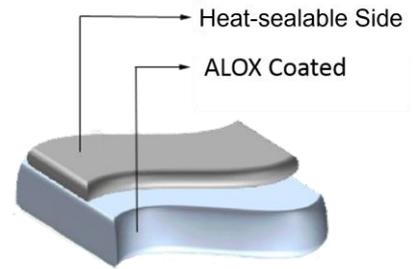


Trading Films

PRODUCT PLA. HIGH BARRIER ALOX TRANSPARENT AND HEAT SEAL

REFERENCE 9003

DESCRIPTION



The **9003** reference is a transparent bioriented polylactic acid film, heat-sealable on one side and with ALOx coating on the other side. The initial sealing temperature is 71°C. Special for **printing and lamination** in flexible packaging applications in general. Thicknesses available in 20 and 30 microns.

VALUES

PROPERTIES	Unit	Test Method	20	30
PHYSICAL PROPERTIES				
Unit weight	g/m ²	ASTM-D-4321	24.8	37.2
Average Yield	m ² /Kg	ASTM-D-4321	40.3	26.9
MECHANICAL PROPERTIES				
Tensile strength MD	N/mm ²	ASTM-D-882	65.5	65.5
TD				
Elongation MD	%	ASTM-D-882	>200%	>200%
TD				
SURFACE				
COF Film/Film Static	-	ASTM D 1894	0.55	0.55
Dynamic				
COF Film/Metal Static	-	ASTM D 1894	0.35	0.35
Dynamic				
OPTICAL PROPERTIES				
Haze	%	ASTM D1003	<5	<5
Gloss 60°	G.U.	ASTM D2457	130	130
THERMAL PROPERTIES				
WVTR: 38°C, 90% RH	gr/m ² day	ASTM-F1249	<1.3	<1.3
OTR: 23°C, 0% RH	Cc/m ² day	ASTM-D3985	<7.8	<7.8
HEAT SEALING PROPERTIES				
Sealing strength U-U	Gf/cm	Internal	980	980
Seal initiation	deg C	Internal	71	71
Hot tack at 121°C	Gf/cm	Internal	390	390



T r a d i n g F i l m s

KEY TRAITS

- The AlOx coating makes possible to remove a layer in the packaging complexes
- Good performance
- Good stiffness
- Good barrier to oxygen and water vapor
- Excellent barrier to aromas, smells and fats
- Good sliding properties
- Excellent twist retention properties.
- Biodegradable into carbon dioxide, water and biomass by digestion microbes.
- Complies with DIN EN 13432 (7H0052) for compostable products and with ASTM D6400
- In compliance with European food contact regulations and with the FDA

APPLICATIONS AND RECOMMENDATIONS

The **9003** reference is a polylactic acid film specially designed for lamination and printing applications for the flexible packaging sector, a specific product for gravure and flexography printing. It can be used on both horizontal (HFFS) and vertical (VFFS) packaging machines.

Ethyl acetate solvents should be avoided because it can start a degradation process until the total disintegration of the PLA. It must be kept in the warehouse at temperatures below 30°C to minimize the deterioration of some of the properties of the film. The film must be conditioned in the operating environment at least 24 hours before use. The film must be used up to six months after the production date.