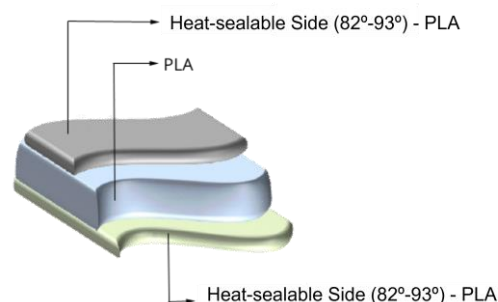




PRODUCT PLA. HEAT SEALABLE TWO SIDES

REFERENCE 9001

DESCRIPTION



The **9001** reference is a transparent, bioriented polylactic acid film heat-sealable on both sides, with an initial sealing temperature of 82 to 93°C. Special for **printing and lamination** in flexible packaging applications in general. Thicknesses available in 20-25-30-35-40-50 and 75 microns.

VALUES

PROPERTIES		Unit	Test Method	20	25	30	35	40	50	75
PHYSICAL PROPERTIES										
Unit weight		g/m ²	ASTM-D-4321	24.8	31.0	37.2	43.4	49.6	62.0	93.0
Average Yield		m ² /Kg	ASTM-D-4321	40.3	32.3	26.9	23.0	20.2	16.1	10.8
MECHANICAL PROPERTIES										
Tensile strength	MD	N/mm ²	ASTM-D-882	65.5	65.5	65.5	65.5	65.5	65	65
	TD			68.9	68.9	68.9	68.9	68.9	65	65
Modulus young	MD	N/mm ²	ASTM-D-882	1910	1910	1910	1910	1910	1910	1910
	TD			1950	1950	1950	1950	1950	1950	1950
SURFACE										
COF Film/Film	Static	-	ASTM D 1894	0.50	0.50	0.50	0.50	0.50	0.50	0.50
	Dynamic			0.50	0.50	0.50	0.50	0.50	0.50	0.50
COF Film/Metal	Static	-	ASTM D 1894	0.30	0.30	0.30	0.30	0.30	0.30	0.30
	Dynamic			0.25	0.25	0.25	0.25	0.25	0.25	0.25
OPTICAL PROPERTIES										
Haze		%	ASTM-D-1003	<5	<5	<5	<5	<8	<9	<14
Gloss 60°		%	ASTM-D-523	110	110	110	110	110	110	110
THERMAL PROPERTIES										
MVTR: 38°C, 90% RH		gr/m ² Day	ASTM-F1249	341	295	233		185	155	124
O2TR: 23°C, 85% RH		Cc/m ² day atm	ASTM-F1927	604	512	403		310	450(*)	420(*)
CO2TR: 23°C, 50% RH		Cc/m ²	ASTM-F2476	3193	2542	2108		1565		
HEAT SEALING PROPERTIES										
sealing strength U-U		gf/cm	Internal	1100	1100	1100		980		
Seal initiation		deg C	Internal	82	82	82		93	93	93



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

KEY TRAITS

- Heat-sealable on both sides
- Good mechanical properties
- Good rigidity
- Good barrier to oxygen
- Excellent transmission to water vapor
- Good sliding properties
- Resistant to oil, grease and alcohol
- Excellent twist retention properties.
- Biodegradable into carbon dioxide, water and biomass by digestion microbes.
- Complies with DIN EN 13432 (7H0052) for compostable products and also with the ASTM D6400
- In compliance with European food contact regulations and with the FDA

APPLICATIONS

The **9001** 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.