



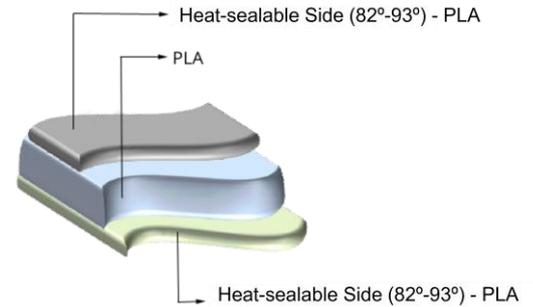
Trading Films

PRODUCT PLA. HEAT SEALABLE TWO SIDES AND MICROPERFORATED

REFERENCE 9002

DESCRIPTION

The **9002** reference is a microperforated and 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 TD	N/mm ²	ASTM-D-882	65.5 68.9	65.5 68.9	65.5 68.9	65.5 68.9	65.5 68.9	65 65
Modulus young	MD TD	N/mm ²	ASTM-D-882	1910 1950	1910 1950	1910 1950	1910 1950	1910 1950	1910 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



KEY TRAITS

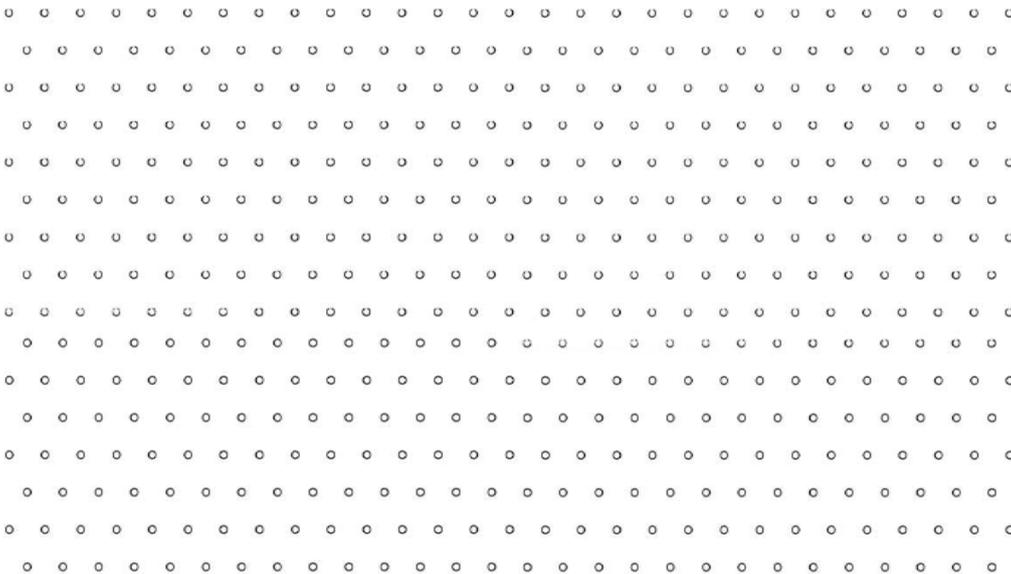
- Microperforated in high temperature thermal system
- Hole diameter: 1 mm
- Distance between holes: 5 mm
- High resistance to breaking and tearing
- Heat-sealable 2 sides Biodegradable into carbon dioxide, water and biomass by digestion microbes.
- Complies with DIN EN 13432 (7H0052) for compostable products and with ASTM D6400
- In compliance with European food contact regulations and with the FDA

APPLICATIONS

The **9002** reference is a polylactic acid film specially designed for packaging agricultural, fruit and vegetable, phytosanitary products and bakery, pastry and artisanal or industrial confectionery products that need oxygen to guarantee the quality of the packaged product. Product suitable for lamination and printing for the flexible packaging sector. Possibility of making lateral and central reserves of non-microperforated film, to favor adhesion on another support such as paper or cardboard.

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.

DESIGN and MEASURES



Diametro agujero: 1mm

