# PRODUCT PORTFOLIO

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### Taghleef Industries

PACKAGING SOLUTIONS WORLDWIDE





NATIVIA® is a new generation of bio-based biaxially oriented flexible packaging films made of Wingeo PLA polylactic acid from NatureWorks. Thanks to the bio-based content and the lower consumption of energy, PLA delivers a lower carbon footprint and additional end of life options compared to most oil-based plastics. All NATIVIA® films have achieved the four-star OK Biobased certificate from Vincotte and are approved for industrial composting according to EN 13432 standard by DIN CERTCO.





These logos can be used for final products which are made of this intermediate and certified as final products at DIN CERTCO or Vincotte.

Transparent

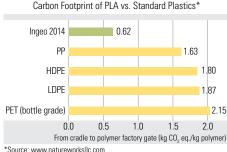
Solid White

White Voided

NTSS, NBSS, D808, NTNS

**NWSS** 

NESS NEW



# **End-of-life options**A closed loop

PLA offers multiple options in terms of end of life. Besides landfilling, there are other solutions which allow to recover the energy value of PLA and minimize the impact on our environment.

Once converted into packaging, NATIVIA® films can be industrially composted and will disintegrate in six months into  $\mathrm{CO}_2$ , water and humus, a soil nutrient. NATIVIA® films can also be mechanically and chemically recycled, as well as incinerated.

NATIVIA® films do not biodegrade in landfill conditions.



### **Specific Characteristics**

- · High Mechanical Strength
- High Seal Strenght
- Good Transparency and Gloss
- Consistent surface energy (≥37mN/m; no decay)
- High Moisture Transmission Rate
- Proven barrier against mineral oils (MOSH/MOAH)
- Excellent Aroma Barrier
- Anti-fog properties
- Paper-like Dead Fold
- Excellent Twist
- · Alcohol, Fat and Oil Resistence

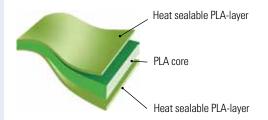
### Segments and Applications

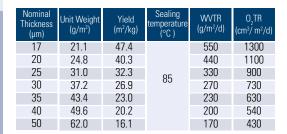
- Bakery
- Dairy/Perishable
- Labels
- Confectionery
- Snacks
- Lidding
- General wrapping
- Paper lamination



#### NTSS

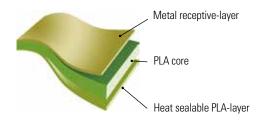
### BoPLA transparent film, both sides heat sealable, biodegradable.





#### **NBSS**

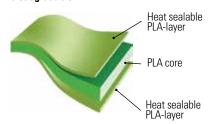
# BoPLA transparent film, both sides heat sealable, for metallising, biodegradable.



Nominal Thickness (µm)	Unit Weight (g/m²)	Yield (m²/kg)	Sealing temperature (°C)	WVTR (g/m²/d)	$O_2$ TR (cm <sup>3</sup> / m <sup>2</sup> /d)
20	24.8	40.3	85	440	1100
25	31.0	32.3		330	900
30	37.2	26.9		270	730
40	49.6	20.2		200	540

#### D808 NEW

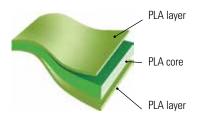
BoPLA transparent film, improved heat stability, both sides heat sealable, biodegradable.



Nominal Thickness (µm)	Unit Weight (g/m²)	Yield (m²/kg)	Sealing temperature (°C)
20	24.8	40.3	85

#### NTNS

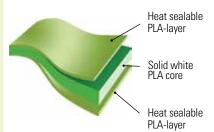
# BoPLA transparent film, non sealable, biodegradable.



Nominal Thickness (µm)	Unit Weight (g/m²)	Yield (m²/kg)	Sealing temperature (°C)
20	24.8	40.3	-
25	31.0	32.3	

#### NWSS

## BoPLA solid white film, both sides heat sealable, biodegradable.

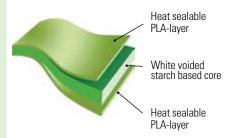


	Nominal Thickness (µm)	Unit Weight (g/m²)	Yield (m²/kg)	Sealing temperature (°C)
	30	37.2	26.9	85
3				

NESS

NEW

# Starch based white voided film, both sides heat sealable, biodegradable.



Sooling

	Thickness (µm)	Unit Weight (g/m²)	Yield (m²/kg)	temperatur (°C)
<u>e</u>	40	38.0	26.3	85
Voided	50	47.5	21.1	
White				
5				
>				

ransparent







SOUTH AFRICA

AUSTRALIA •

- Production Sites
- Distribution Centers/Sales Offices



For further information please contact staff@ti-films.com or visit our website www.nativia.com

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