

**I'm  
green**

TM

**PE WAX**

I'm green™  
bio-based

**Braskem** 

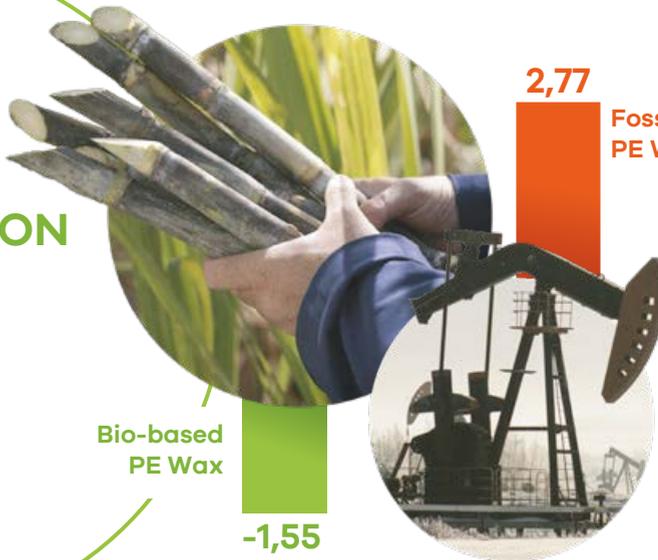
# PE WAX

I'm green™  
bio-based

## PE wax has a NEGATIVE CARBON FOOTPRINT\*

Kg CO<sub>2</sub>e/kg of Bio-based PE Wax

\*Assuming a PE wax produced with 100%  
European fossil PE (RER) - ecoinvent v3.10



-156%

I'm green™ bio-based polyethylene wax is a product that has negative carbon footprint as it comes from sugar cane. It's a sustainable solution that complements Braskem's portfolio offer for multiple markets.

I'm green™ bio-based polyethylene wax is ideal for use in applications such as: adhesives, cosmetics, paints and compounds.

## Applications



### Cosmetics

Acts as a rheology modifier, granting greater resistance and softness to products such as lipsticks, creams, and lotions.



### Adhesives

Acts as a rheology modifier on hot-melt adhesives, contributing to better system compatibility.



### Compounds

Acts as a dispersant and lubricant agent in the manufacturing process of compounds with high concentration of additives.



### Inks and Coatings

Acts as slip agent, decreasing the friction coefficient (COF) in industrial paints and coatings, providing greater blocking resistance.

FEATURE	METHOD	UNIT	GWAX 30E	GWAX 50E	GWAX 10A	GWAX 50A	GWAX 150A	GWAX 260A	CNWAX 140A
Dropping Point	DIN ISO 2176	°C	101	108	115	119	120	125	122
Solidification Point	DIN ISO 2207	°C	82	94	95	104	105	112	107
Melting Point	DIN ISO 51007	°C	100	105	113	118	120	127	122
Needle Penetration (25 °C)	DIN 51579, ASTM D1321	10-1mm	12	4	17	2	1	1	1
Dyn. Viscosity (140 °C)	DIN EN ISO 2555	mPas	53	138	32	141	360	818	388
Density (23 °C)	DIN EN ISO 1183-1	g/cm <sup>3</sup>	0.88	0.88	0.92	0.94	0.93	0.95	0.90
Acid Value	DIN EN ISO 2114	mg(KOH)/g	<1	<1	<1	<1	<1	<1	<2
Acid Value	DIN EN ISO 3681	mg(KOH)/g	<1	<2	<1	<1	<2	<1	<2
Yellowness Index	DIN EN ISO 11664		26	4	55	30	<25	2	<25
Flashpoint - Pensky M.	DIN EN ISO 2719	°C	>216	>220	>200	>225	>225	>220	>220
Minimum Bio-Based Content	ASTM D 6866	%	95	95	96	96	96	96	60

Other grades with different characteristics can be developed in order to meet the demands of each market.



**I'm  
green**<sup>™</sup>  
BIO-BASED

I'm made from  
**SUGAR  
CANE**  
I'M RENEWABLE

### Certifications



FDA compliance  
EU compliance

REACH  
Food contact China  
compliance

**Braskem** 

learn more  
[braskem.com/imgreen/home-en](https://braskem.com/imgreen/home-en)

Suggestions of usage are merely illustrative. The possibility of use of this product in each specific case can vary from country to country and must be investigated by the interested party. Braskem does not guarantee the possibility of use of the product in conjunction with other materials in any given application.

Please, refer to the RIS or contact Braskem for information on specific regulatory information.