



# Solutions for adhesives and sealants

Braskem 



Braskem is a global chemical and petrochemical producer with a broad portfolio of thermoplastic resins and basic and performance chemicals. Its 8,000 Team Members work with an eye on the future to develop sustainable solutions in chemistry and plastics that improve people's lives.





# Solutions for adhesives and sealants

## Adhesives and sealants

Braskem's product portfolio for the adhesive and sealants market, includes high performance products for a wide variety of applications. See below our products:

## Chemicals

### *Specialties*

- Braskem PIB
- Braskem Unilene®



# **Braskem PIB**

Non-toxic, Braskem PIB is certified by the National Sanitation Foundation (NSF) – H1, furthermore meets requirements for adhesive and sealant applications for the cosmetics and food industries.

In production for more than 40 years, Braskem PIB has been constantly enhanced and is currently available in various grade options. These include medium-molecular weight grade, which is an excellent choice for adhesive and sealant applications.

## **Advantages of Braskem PIB in adhesives and sealants**

### **Permanence**

Non-drying even with the action of drying catalysts. Negligible loss of volatile material and weather-resistant.

### **Tackness**

Inherent tack and adhesive properties.

### **Barrier**

Excellent gas and water vapor barrier properties.

### **Resistance**

Weather, temperature and water resistant, remaining colorless and odorless. Non-curable polymer.

### **Non-toxic**

Approved for contact with food products and does not irritate sensitive skin. Meets various requirements of the Food and Drug Administration (FDA) for food contact.

## **APPLICATIONS**

**Removable and pressure-sensitive tapes**





PSA



Hot melt adhesives

Properties	Average Molecular Weight	Viscosity (37,8°C)	Viscosity (100°C)	Color	Density at 20/4°C	Flash Point
Unit	Daltons	cSt	cSt	-	g/cm <sup>3</sup>	°C
Test Method	Internal GPC method	ASTM D 445	ASTM D 445	ASTM D 1209	ASTM D 4052	ASTM D 92
<b>Grades</b>						
PIB4	350	16		70	0,82	> 125
PIB6	365	30	6	70	0,84	> 125
PIB8	500	106	12	70	0,85	> 130
PIB10	600	500	25	60	0,87	> 130
PIB16	675	1000	49	60	0,88	> 135
PIB24	1080	8710	220	50	0,89	> 190
PIB30	1300	19500	630	50	0,90	> 190
PIB32	1345	28000	680	50	0,90	> 195
PIB90	1948		2000	10	0,91	> 200
PIB120	2100		2500	50	0,91	> 220
PIB122	2425		3200	50	0,91	> 235
PIB128	2500		4350	50	0,91	> 240
PIB240	4200		12500	50	0,92	> 245





**Braskem**  **Unilene™**

Due to its excellent tack and adhesion, it is ideal for high-performance adhesive applications, as well good compatibility with a wide range of polymeric materials.

## Advantages of Braskem Unilene® in adhesives

### Hot melt

**Unilene® C9** are aromatic Hydrocarbon Resin with excellent performance and compatibility with various polymers and elastomers as EVA, SBR, NR, CR, PVC.

**Unilene® C9** is used in contact adhesives, hot melt and solvent-borne adhesives.



Furniture



Footwear



Packaging



Properties		Softening Point	Gardner Color	Acid Number
Unilene® C9 Aromatic Resin		ASTM D-6496	ASTM D-6166	ASTM D-974
Unit		°C	-	mgKOH/g
Serie A	A-80	75-86	max 7	< 0.10
	A-90	87-95	max 7	< 0.10
	A-100	95-105	max 6	< 0.10
Serie B	B-100	95-105	max 6	< 0.10
	B-110	106-115	max 6	< 0.10
	B-120	116-125	max 6	< 0.10
Serie BS	BS-130	126-135	max 5	< 0.10
	BS-140	136-145	max 5	< 0.10
Serie LN	A-90 LN	87-95	max 7	< 0.10
	A-100 LN	95-105	max 6	< 0.10
	B-100 LN	95-105	max 6	< 0.10
	B-110 LN	106-115	max 6	< 0.10
	B-120 LN	116-125	max 6	< 0.10

