



EVA

Ethylene-Vinyl
Acetate Copolymer



Characteristics

- Braskem's ethylene-vinyl acetate (EVA) copolymers combine flexibility, lightness, and versatility in a portfolio of solutions that meet the most demanding industrial requirements. Produced through the copolymerization of ethylene and vinyl acetate, our EVAs are high-performance thermoplastics that stand out compared to other polymers.
- In footwear, they provide comfort, impact absorption, durability, and design freedom in crosslinked and expanded compounds for injected and pressed foams.
- In the hot melt adhesive industry, they offer reliable adhesion even at low temperatures, with excellent compatibility with waxes and resins.
- For the packaging market, Braskem offers specific grades for monolayer or multilayer films, with high transparency, mechanical strength, and efficient sealing, serving sectors ranging from food to agricultural and industrial applications.
- With a complete portfolio and specialized technical support, Braskem invites you to explore the possibilities that EVA can offer to innovate in your applications.

Applications



Footwear Products

Flexibility in motion.
Performance under
all conditions.

Braskem's EVA Solutions for Footwear Deliver:



- High flexibility and stable performance even at low temperatures
- Ideal elasticity for comfort, impact absorption, and energy return
- High tensile and tear resistance, ensuring durability
- Safe formulations: free from toxic substances
- Simple and efficient processing in injection or compression molds
- Versatile compatibility, allowing blending with polyethylene and rubber

Foamable Resins

Typical Properties		Melt Flow Rate (190 °C / 2,16 kg)	Vinyl-Acetate Content	Density	Melting Point ^a	Vicat Softening Temperature	Hardness (Shore A) ^a	Hardness (Shore D) ^a	Tensile Strength at Break ^a	Elongation at Break ^a
Method ASTM		D 1238	Braskem	D 1505/ D 792	D 3418	D 1525	D 2240	D 2240	D 638	D 638
Units		g/10 min	%	g/cm³	°C	°C	-	-	MPa	%
EVA	3019PE	2,5	19,0	0,940	86	60	90	30	-	-
		Base polymer for the production of injected parts or expanded and crosslinked sheets for use in the footwear, toy, and furniture industries, among others.								
	8019PE	8,0	19,0	0,940	86	58	85	30	-	-
		Base polymer with enhanced flowability to facilitate mold filling and additive dispersion in expanded part formulations.								
	HM150	150,0	20,0	0,940	83	46	83	27	-	-
		High-flow EVA that facilitates the processing of filled compounds, promoting better dispersion and mold filling.								
	3523PE	4,0	23,0	0,943	79	49	88	32	-	-
		Medium EVA content ideal for avoiding grade blending, providing process stability and consistent properties in injected part formulations.								
	HM728	6,0	28	0,950	77	49	80	25	-	-
		High EVA content that provides greater flexibility, softness, and adhesion—ideal for formulations requiring superior performance in outsoles and midsoles.								
HM2528	25,0	28	0,950	75	46	79	23	-	-	
	High EVA content and high flowability, combining excellent bonding and flexibility with easy processing of filled or complex compounds.									

a) Test specimen molded by compression according to ASTM D 4703.

Hot Melt Products

Application efficiency.
Reliable adhesion under
any condition.

Characteristics

Braskem’s EVA resins for hot melt adhesives are designed to deliver high performance in industrial processes that demand speed, consistency, and compatibility with various materials. Our solutions consist of semi-amorphous vinyl acetate resins that ensure excellent miscibility with waxes, tackifying resins, and other modifiers, enabling the formulation of adhesives with customizable properties.

Whether in packaging, furniture, footwear, bookbinding, or industrial assembly, Braskem’s EVAs offer thermal stability, short open time, and high adhesion capacity on different surfaces—with safety and processability.

Key Benefits



- 100% solid: high active concentration, no evaporation
- Solvent-free: safe and sustainable formulation
- Low toxicity: ideal for sensitive applications
- Fast application: short set time and high efficiency
- Immediate bonding: excellent open time for efficient assembly
- Adheres to various substrates: paper, fabric, wood, polymers
- Precise control of bonding line
- Moisture and environmental resistance
- Excellent performance even with small contact areas

Hot Melt

Typical Properties		Melt Flow Rate (190 °C / 2,16 kg)	Vinyl-Acetate Content	Densidaty	Melting Point ^a	Vicat Softening Temperature ^a	Hardness (Shore A) ^a	Hardness (Shore D) ^a	Tensile Strength at Break ^a	Elongation at Break ^a
Method ASTM		D 1238	Braskem	D 1505/D 792 ^a	D 3418	D 1525	D 2240	D 2240	D 638	D 638
Units		g/10 min	%	g/cm³	°C	°C	–	–	MPa	%
EVA	HM150	150,0	20,0	0,940	83	46	83	27	–	–
	Base resin for the production of hot melt adhesives for packaging, bookbinding, and general-purpose applications. Compatible with wax blends.									
	HM728	6,0	28,0	0,950	77	49	80	25	–	–
	Base resin for the production of hot melt adhesives for furniture and DIY applications. Hot melt adhesive formulations with excellent compatibility with waxes and other materials.									
EVA	HM2528	25	28,0	0,950	75	46	79	23	–	–
	Base resin for the production of hot melt adhesives for packaging, bookbinding, carpets, and other general-purpose applications. Suitable for injected and extruded products in applications requiring flexibility and adhesion.									

a) Test specimen molded by compression according to ASTM D 4703 method.

Products for Films

Smart protection. Process efficiency.
Sustainable packaging.

Braskem's EVA resins for films are designed to meet the demands of coextrusion and lamination across a wide range of markets, including food, agriculture, industrial, and specialty packaging. With properties ranging from high transparency to cold sealing, our solutions ensure excellent processability, mechanical strength, and compatibility with various substrates.

Strong performance at low temperatures and minimal gel formation enable high-performance technical films with superior finish and reliability. Braskem's diverse EVA grades allow fine-tuning of properties such as polarity, elasticity, resilience, and adhesion strength, facilitating the customization of complex multilayer structures.

Filme Geral

Typical Properties		Melt Flow Rate (190°C/10min)	Vinyl-Acetate Content	Density	Thickness Film	Vicat Softening Temperature °	Melting Point	Tensile Strength at Break (DM/DT)	Elonga on at Break (DM/DT)	1% Secant Modulus (DM/DT)	Dart Drop Impact Strength (Method B)	Elmendorf Tear Strength (DM/DT)	Gloss - Angle 45°	Haze
Method ASTM		D 1238	Braskem	D 1505/ D 792	–	D 1525	D 3418	D 882	D 882	D 882	D 1709	D 1922	D 523	D 1003
Units		g/10 min	%	g/cm³	µm	°C	°C	MPa	%	MPa	g/F50	gf	–	%
EVA	VA0410F	0,35	10,0	0,935	50	87	98	39/33	500/1100	95/100	540	130/190	91	2,5
	Coextruded packaging for food products. Packaging for refrigerated and frozen products.													
	TN2005	0,50	13,5	0,935	70	75	94	32/32	750/800	58/64	725	240/350	95	2
	Coextruded packaging for food products. Packaging for refrigerated and frozen goods. Transparent thermal film for greenhouse covering.													
	TN2006	0,70	18	0,940	70	70	90	38/33	820/700	44/46	950	210/320	92	2
	Sealant layer in coextruded and/or laminated films. High-strength stretchable films (stretch hood). Agricultural film.													
EVA	TN2020	2,0	8,5	0,931	40	79	100	31/24	650/1100	79/94	175	200/220	90	3
	Shrinkable coextruded films for food packaging. Packaging for frozen products.													
EVA	HM728F	6,0	28	0,951	50	43	73	–	–	–	–	–	–	–
	Blown and cast films with good adhesion to various substrates, such as OPP, PVDC, and OS.													

Test specimens molded by compression according to ASTM D 4703. Tests performed on plates: a) 3mm.

Key Benefits

- High polarity: ideal as an adhesive layer in coextrusion
- Excellent impact and puncture resistance
- Superior transparency and gloss
- Optimal thermal retention for packaging and greenhouse applications
- Low initial sealing temperature
- Good hot tack: strong and fast sealing
- Mechanical stability even in cold environments
- Low incidence of gels and “fish eyes”
- Compatibility with PE, PET, PVDC, and other polymers





EVA produced from sugarcane, a renewable source that helps reduce the carbon footprint without compromising performance or processability.



Drop-in Solution

Replaces conventional resin without requiring adjustments to machinery or processing methods.



Recyclable

Can be recycled through the same streams already used for conventional EVA.



Renewable Source

Produced from sugarcane, a renewable raw material.



CO₂ Capture

Sugarcane captures CO₂ from the atmosphere, helping reduce greenhouse gas emissions.

Typical Properties	Melt Flow Rate 190 °C/10 min	Vinyl-Acetate Content	Minimum C14 content
Method ASTM	D 1238	Braskem	D6866
Units	g/10 min	%	%
EVA SVT2180	2.1	19	80
Base polymer for foamed and crosslinked midsoles, with excellent performance in compression or injection molding for footwear, toys, and sporting goods.			

Test specimens prepared from compression molding, according to ASTM D 4703.

Typical Properties	Melt Flow Rate 190 °C/10 min	Vinyl-Acetate Content	Minimum C14 content
Method ASTM	D 1238	Braskem	D6866
Units	g/10 min	%	%
EVA Evance SVT2145R	2.1	14	45
Medium-polarity modified EVA, easily crosslinkable, with a soft touch, good adhesion, abrasion resistance, and resilience. Compatible with various types of thermoplastics and elastomers.			

Test specimens prepared from compression molding, according to ASTM D 4703.

- 1) Check product availability in your region with our commercial team.
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