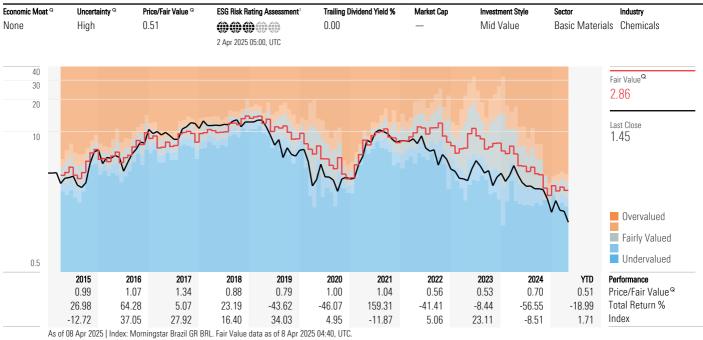
Braskem SA Class A XBRK $\star \star \star$ 9 MOMENTUM 9 Apr 2025 04:40, UTC



'The ESG Risk Rating Assessment is a representation of Sustainalytics' ESG Risk Rating. Jeffrey Ptak, Chief Ratings Officer for Morningstar Research Services LLC oversees the methodology that supports Quantitative Fair Value Estimates and Quantitative Star Ratings. Mr Ptak is guided by the Morningstar Research Services' Code of Ethics and the Morningstar, Inc. Code of Ethics in carrying out his responsibilities. For information regarding Conflicts of Interests, visit http://global.morningstar.com/equitydisclosures.

Business Description

Braskem SA manufactures and sells chemicals, petrochemicals, fuels, and utilities. The company's geographical segments include Brazil; the United States and Europe and Mexico. It derives a majority of its revenue from Brazil. It produces olefins, such as ethylene, polymer and chemical-grade propylene, butadiene, and butene-1; fuels, such as automotive gasoline, liquefied petroleum gas, or LPG, ethyl tertiary-butyl ether, or MTBE; intermediates, such as cumene and others.

Valuation [°]as of 8 Apr 2025

Braskem SA Class A may seem undervalued at first glance, due to its considerable price decline over the past year. However, to account for the risk associated with a potential value trap, we have limited its rating to 3 stars. The stock currently trades at a 49% discount to our quantitative fair value estimate of 2.86 EUR per share; however, caution is warranted due to this estimate's high uncertainty rating.

The company's balance sheet bolsters our estimated fair value. Leverage can enable a company to invest in growth, potentially boosting shareholder value more than equity financing alone. For example, the firm's long term debt to assets ratio of 0.7 ranks in the top 10% compared with peers globally. The firm has a high level of long-term debt relative to its asset base, which can signal significant investment in the business or a pending merger. In either case, it may suggest future growth in cash flows. We believe this is a sign that shares could be undervalued.

Alternatively, the firm's lack of profitability is potentially concerning. Companies with low profitability are often less resilient in recessions and are likely to generate weaker future cash flows for shareholders. The firm's EBITDA margin of -11.7%, a core component of profitability, ranks in the bottom 10% compared with peers globally. This company's narrow EBITDA margin suggests that it lacks the ability to turn revenue into cash flow. Despite our favorable price/fair value ratio, this characteristic is a negative attribute.

Economic Moat [@]as of 8 Apr 2025

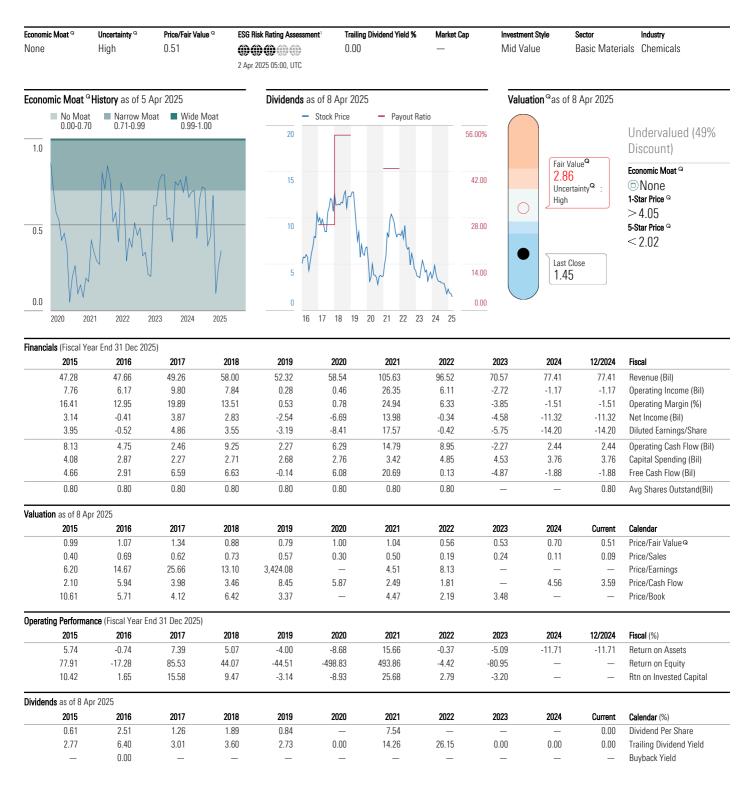
With its quantitative economic moat rating of none, this business is unlikely to consistently outearn its cost of capital without structural protection from competition. Additionally, the firm's moderate financial health score suggests it is acceptably positioned against adverse economic circumstances.

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Braskem SA Class A XBRK $\star \star \star$ $\stackrel{\circ}{\star}$ momentum 9 Apr 2025 04:40, UTC





Appendix

Economic Moat ^Q History as of 5 Apr 2025 (No Moat: 0.00-0.70, Narrow Moat: 0.70-0.99, Wide Moat: 0.99-1.00)												
Year	January	February	March	April	May	June	July	August	September	October	November	December
2025	0.67	0.10	0.26	0.35	_	_	_	_	_	_	_	_
2024	0.76	0.69	0.78	0.66	0.69	0.70	0.42	0.65	0.72	0.71	0.38	0.43
2023	0.21	0.20	0.61	0.61	0.75	0.79	0.79	0.53	0.54	0.40	0.75	0.73
2022	0.57	0.40	0.74	0.68	0.29	0.42	0.37	0.51	0.44	0.48	0.32	0.34
2021	0.08	0.19	0.17	0.41	0.34	0.29	0.27	0.80	0.71	0.84	0.76	0.52
2020	0.86	0.70	0.57	0.53	0.41	0.45	0.36	0.05	0.20	0.26	0.10	0.15



Quantitative Equity Report Overview

The quantitative report on equities consists of data, statistics and quantitative equity ratings on equity securities. Morningstar, Inc.'s quantitative equity ratings are forward looking and are generated by a statistical model that is based on Morningstar Inc.'s analyst-driven equity ratings and quantitative statistics. Given the nature of the quantitative report and the quantitative ratings, there is no one analyst in which a given report is attributed to; however, Jeffrey Ptak, Chief Ratings Officer for Morningstar Research Services LLC is responsible for overseeing the methodology that supports the quantitative equity ratings used in this report. As an employee of Morningstar Research Services' Code of Ethics and the Morningstar, Inc. Code of Ethics and Personal Securities trading Policy in carrying out his responsibilities.

Quantitative Equity Ratings

Morningstar's quantitative equity ratings consist of: (i) Quantitative Fair Value Estimate, (ii) Quantitative Star Rating, (iii) Quantitative Uncertainty, (iv) Quantitative Economic Moat, and (v) Quantitative Financial Health (collectively the "Quantitative Ratings).

The Quantitative Ratings are calculated daily and derived from the analystdriven ratings of a company's peers as determined by statistical algorithms. Morningstar, Inc. ("Morningstar", "we", "our") calculates Quantitative Ratings for companies whether or not it already provides analyst ratings and qualitative coverage. In some cases, the Quantitative Ratings may differ from the analyst ratings because a company's analyst-driven ratings can significantly differ from other companies in its peer group.

i. **Quantitative Fair Value Estimate:** Intended to represent Morningstar's estimate of the per share dollar amount that a company's equity is worth today. Morningstar calculates the Quantitative Fair Value Estimate using a statistical model derived from the Fair Value Estimate Morningstar's equity analysts assign to companies. Please go to http://global.morningstar.com/ equitydisclosures for information about Fair Value Estimate Morningstar's equity analysts assign to companies.

ii. **Quantitative Economic Moat:** Intended to describe the strength of a firm's competitive position. It is calculated using an algorithm designed to predict the Economic Moat rating a Morningstar analyst would assign to the stock. The rating is expressed as Narrow, Wide, or None.

Narrow – assigned when the probability of a stock receiving a "Wide Moat" rating by an analyst is greater than 70% but less than 99%.

Wide – assigned when the probability of a stock receiving a "Wide Moat" rating by an analyst is greater than 99%.

None – assigned when the probability of an analyst receiving a "Wide Moat" rating by an analyst is less than 70%.

iii. **Quantitative Star Rating:** Intended to be the summary rating based on the combination of our Quantitative Fair Value Estimate, current market price, Quantitative Uncertainty Rating, and momentum. The rating is expressed as One-Star, Two-Star, Three-Star, Four-Star, and Five-Star.

- ★ the stock is overvalued with a reasonable margin of safety. Log (Quant FVE/Price) < -1*Quantitative Uncertainty Micro-Caps: Log (Quant FVE/Price) < -1.5*Quantitative Uncertainty</p>
- ★★ the stock is somewhat overvalued.

Log (Quant FVE/Price) between (-1*Quantitative Uncertainty, -0.5*Quantitative Uncertainty)

Micro-Caps: Log (Quant FVE/Price) between (-1.5*Quantitative Uncertainty, -0.75*Quantitative Uncertainty)

 $\star \star \star$ – the stock is approximately fairly valued.

Log (Quant FVE/Price) between (-0.5*Quantitative Uncertainty, 0.5*Quantitative Uncertainty)

*Micro-Caps: Log (Quant FVE/Price) between (-0.75*Quantitative Uncertainty, 0.75*Quantitative Uncertainty)*

 $\star \star \star \star$ – the stock is somewhat undervalued.

Log (Quant FVE/Price) between (0.5*Quantitative Uncertainty, 1*Quantitative Uncertainty)

Micro-Caps: Log (Quant FVE/Price) between (0.75*Quantitative Uncertainty, 1.5*Quantitative Uncertainty)

★★★★★ – the stock is undervalued with a reasonable margin of safety. Log (Quant FVE/Price) > 1*Quantitative Uncertainty Micro-Caps: Log (Quant FVE/Price) > 1.5*Quantitative Uncertainty

Under Review – Morningstar will assign a rating of "Under Review" in three scenarios: when there is occurrence of a corporate event, when the closing price is unavailable for at least 7 days, or when the quantitative Fair Value to Price Ratio does not fall into the expected range of 0.25-4.

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Momentum Flag – After the initial calculation for the star rating, there is a final filtering step based on the momentum of the company. We rank the companies based on their 12-1 month momentum, then restrict those below the 30th percentile to a maximum of 3 stars.

iv. **Quantitative Uncertainty:** Intended to represent Morningstar's level of uncertainty about the accuracy of the Quantitative Fair Value Estimate. Generally, the lower the Quantitative Uncertainty, the narrower the potential range of outcomes for that particular company. The rating is expressed as Low, Medium, High, Very High, and Extreme.

Low – the interquartile range for possible fair values is less than 10% Medium – the interquartile range for possible fair values is less than 15% but greater than 10%

High – the interquartile range for possible fair values is less than 35% but greater than 15%

 $Very\ High\ -$ the interquartile range for possible fair values is less than 80% but greater than 35%

 $\ensuremath{\textit{Extreme}}$ — the interquartile range for possible fair values is greater than 80%

v. **Quantitative Financial Health:** Intended to reflect the probability that a firm will face financial distress in the near future. The calculation uses a predictive model designed to anticipate when a company may default on its financial obligations. The rating is expressed as Weak, Moderate, and Strong.

Weak – assigned when Quantitative Financial Health < 0.2

Strong – assigned when Quantitative Financial Health > 0.7

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i. Last Close – Price of the stock as of the close of the market of the last trading day before date of the report.

ii. **Quantitative Valuation**—Using the below terms, intended to denote the relationship between the security's **Last Price** and Morningstar's quantitative fair value estimate for that security.

Undervalued – Last Price is below Morningstar's quantitative fair value estimate.

Fairly Valued – Last Price is in line with Morningstar's quantitative fair value estimate.

Overvalued – Last Price is above Morningstar's quantitative fair value estimate.

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Unmanaged Risk is measured on an open-ended scale starting at zero (no risk) with lower scores representing less unmanaged risk and, for 95% of cases, the unmanaged ESG Risk score is below 50.

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