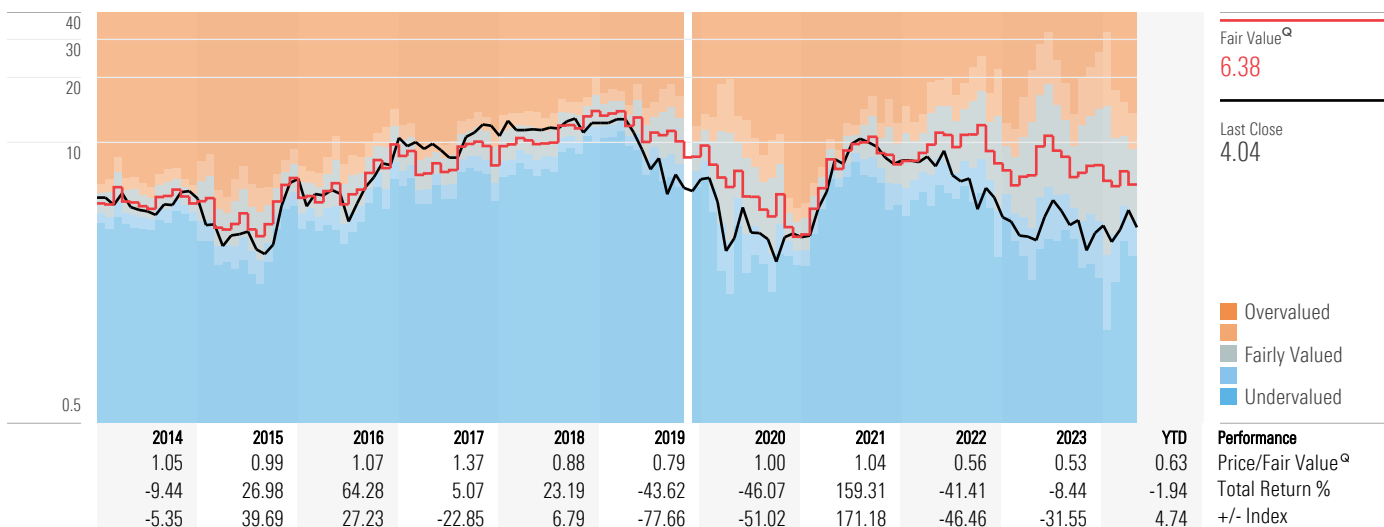


Braskem SA Class A XBRK ★★★★★ Q 18 Apr 2024, 22:44 UTC

Economic Moat ^Q	Uncertainty ^Q	Price/Fair Value ^Q	ESG Risk Rating Assessment ¹	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	Very High	0.6	 3 Apr 2024 05:00, UTC	30.02	3.1144 Bil	Mid Value	Basic Materials	Chemicals



As of 18 Apr 2024 | Index: Morningstar Brazil GR BRL. Fair Value data as of 18 Apr 2024, 22:44 UTC.

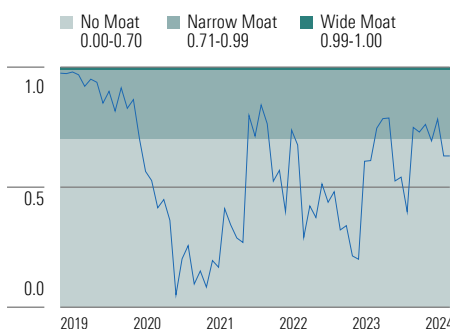
¹The ESG Risk Rating Assessment is a representation of Sustainalytics' ESG Risk Rating. Lee Davidson, Chief Analytics Officer for Morningstar, Inc, oversees the methodology that supports Quantitative Fair Value Estimates and Quantitative Star Ratings. Mr. Davidson is guided by the Morningstar, Inc. Code of Ethics in carrying out his responsibilities. For information regarding Conflicts of Interests, visit <http://global.morningstar.com/equitydisclosures>.

Key Metrics as of 12 Apr 2024

Metrics		Percentile in Sector
Earnings Yield (%)	-24.1	22.0
Sales Yield (%)	372.6	94.0
Book Value Yield (%)	25.7	21.0
Return on Assets (%)*	-5.1	45.0
Revenue(Bil)*	14.2	96.0
Market Value (Bil)	3.7	88.0
Enterprise Value (Bil)	11.8	94.0
EVMV Ratio	3.1	96.0
Volatility TTM (%)	39.7	42.0
Drawdown TTM (%)	48.1	59.0
Volume (Mil)	4.4	89.0

*30 Sep 2023

Economic Moat ^Q History as of 18 Apr 2024



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 ETBE, and methyl tertiary-butyl ether, or MTBE; intermediates, such as cumene and others.

Valuation ^Q as of 18 Apr 2024

Braskem achieves a 3-star quantitative star rating based on Morningstar's equity model. This reflects the company's valuation and uncertainty scores under this assessment system.

The Quantitative Fair Value estimate is 6.01, above the previous closing price of 4.04. The stock has been trading between a 57.99% and 30.65% discount to its quantitative fair value over the past year. The stock's current valuation rating sits at the 38th percentile in the coverage universe and 58th percentile in the basic materials sector (higher percentile indicates more undervalued).

The quantitative uncertainty rating for Braskem is Extreme.

Our quantitative star rating last differed from the current rating on 04/16/2024; the uncertainty rating last differed on 04/16/2024. The previous ratings were 4 and Very High, respectively.

The main drivers of the company's valuation and uncertainty are its EV-MV ratio and earnings yield. The enterprise value-to-market value ratio of 3.28 falls at the 94th percentile in the equity universe and the 95th percentile in its sector. The earnings yield of -25.07% corresponds to the 16th percentile overall and the 22nd percentile in the industry.

Economic Moat ^Q as of 18 Apr 2024

With a Morningstar quantitative moat rating of None, the quantitative moat score for Braskem falls at the 79th percentile in the basic materials sector and at the 69th in the equity coverage universe. The company has maintained its None quantitative moat rating since after 04/08/2024, when it was downgraded from Narrow.

We also assign a Moderate quantitative financial health rating to Braskem. The company's raw score on this metric, termed Distance to Default, ranks at the 11th percentile overall and 10th in the basic materials sector. Furthermore, this financial health rating has stayed Moderate over the last year.

Supporting these ratings are the company's sales yield and annualized trailing 12-month volatility. The sales yield of 386.34%, ranks at the 91st percentile in the covered equity universe and at the 94th percentile among its peers. Meanwhile, its annualized trailing 12-month volatility of 39.49%, falls at the 62nd percentile in the universe and the 42nd percentile in the basic materials sector.

Fundamentals as of 18 Apr 2024


Braskem maintains losses per share of -5.75. The company further earns a return on invested capital of -3.2%. These values are calculated over a trailing 12-month period.

Contact

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<https://www.braskem.com.br>

Braskem SA Class A XBRK ★★★★★ 18 Apr 2024, 22:44 UTC

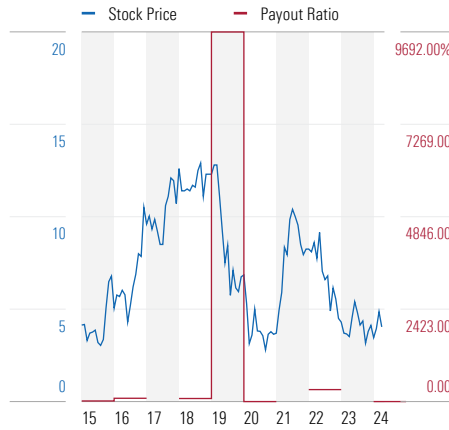
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None	Very High	0.6	 3 Apr 2024 05:00, UTC	30.02	3.1144 Bil	Mid Value	Basic Materials	Chemicals

Earnings as of 12 Apr 2024

Earnings	%	■ Percentile in Sector
Dividend Yield*	—	—
Payout Ratio*	—	—
Price to Earnings	—	—
Price to Cash Flow	—	—
ROIC**	-3.4	50.0

*—
**30 Sep 2023

Dividends as of 18 Apr 2024



Valuation ^Q as of 18 Apr 2024

Fair Value ^Q
6.38

Uncertainty ^Q :
Very High

Last Close
4.04

XBRK is Undervalued
at a 37% discount.

Economic Moat ^Q
None
Financial Health ^Q
Moderate
1-Star Price ^Q
> 13.65
5-Star Price ^Q
< 2.98

Financials as of 18 Apr 2024 (Fiscal Year End 31 Dec 2024)

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	Fiscal
46	47	48	49	58	52	59	106	97	71	71	Revenue (Bil)
3.46	7.67	6.20	9.61	7.79	0.17	7.19	26.05	4.28	-2.72	-2.72	Operating Income (Bil)
7.56	16.36	13.0	19.5	13.43	0.32	12.28	24.66	4.43	-3.85	-3.85	Operating Margin (%)
0.72	3.00	-0.41	3.87	2.83	-2.54	-6.69	13.99	-0.34	-4.58	-4.58	Net Income (Bil)
0.90	3.77	-0.52	4.85	3.55	-3.19	-8.41	17.57	-0.42	-5.75	-5.75	Diluted Earnings/Share
3.81	7.09	4.46	2.46	9.25	2.27	6.29	14.79	8.95	-2.27	-2.27	Operating Cash Flow (Bil)
-5,409	-3,338	-2,587	-2,273	-2,706	-2,683	-2,760	-3,421	-4,848	-4,530	-4,530	Capital Spending (Mil)
-1.60	3.75	1.87	0.19	6.54	-0.42	3.53	11.37	4.10	-6.80	-6.80	Free Cash Flow (Bil)
796	796	795	796	796	797	797	797	796	797	797	Avg Shares Outstand(Mil)

Valuation as of 18 Apr 2024

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar
1.05	0.99	1.07	1.37	0.88	0.79	1.00	1.04	0.56	0.53	0.63	Price/Fair Value ^Q
0.31	0.50	0.59	0.69	0.78	0.44	0.35	0.51	0.19	0.24	0.26	Price/Sales
17.42	7.84	12.49	29.19	13.92	3,515.87	—	4.55	10.57	—	—	Price/Earnings
4.95	3.04	4.52	12.49	4.53	10.28	5.50	4.42	1.86	—	3.64	Price/Cash Flow
1.90	10.05	5.37	4.36	6.05	3.33	—	4.92	2.32	3.51	4.53	Price/Book

Operating Performance as of — (Fiscal Year End 31 Dec 2024)

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Q3	Fiscal (%)
1.77	5.74	-0.74	7.39	5.07	-4.0	-8.68	15.66	-0.37	-5.09	-1.71	Return on Assets
12.72	77.91	-17.28	85.53	44.07	-44.51	-498	493	-4.42	-80.95	-34.94	Return on Equity
4.7	10.42	1.65	15.58	9.47	-3.14	-8.93	25.68	2.79	-3.2	-1.91	Rtn on Invested Capital

Dividends as of —

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar (%)
0.61	0.61	2.51	1.26	3.77	0.84	—	7.54	1.70	—	—	Dividend Per Share
3.64	2.77	6.4	—	3.6	2.73	—	—	26.15	—	30.02	Trailing Dividend Yield
—	—	—	—	—	—	—	—	—	—	—	Buyback Yield

Appendix

Economic Moat [®]History as of 18 Apr 2024 (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
2024	0.76	0.69	0.78	0.63	—	—	—	—	—	—	—	—
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
2019	0.97	0.97	0.98	0.97	0.92	0.95	0.94	0.85	0.90	0.82	0.91	0.83

Quantitative Equity Report Overview

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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 analyst-driven 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*

★★ – 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)*

★★★ – 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)*

★★★★ – 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*

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%

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

Moderate – assigned when Quantitative Financial Health is between 0.2 and 0.7

Strong – assigned when Quantitative Financial Health > 0.7

Other Definitions

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.

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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Sustainalytics analyzes over 1,300 data points to assess a company's exposure to and management of ESG risks. In other words, ESG Risk Ratings measures a company's unmanaged ESG Risks represented as a quantitative score. 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.

Based on their quantitative scores, companies are grouped into one of five Risk Categories (negligible, low, medium, high, severe). These risk categories are absolute, meaning that a 'high risk' assessment reflects a comparable degree

of unmanaged ESG risk across all subindustries covered.

The ESG Risk Rating Assessment is a visual representation of Sustainalytics ESG Risk Categories on a 1 to 5 scale. Companies with Negligible Risk = 5 Globes, Low Risk = 4, Medium Risk = 3 Globes, High Risk = 2 Globes, Severe Risk = 1 Globe. For more information, please visit sustainalytics.com/esg-ratings/

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