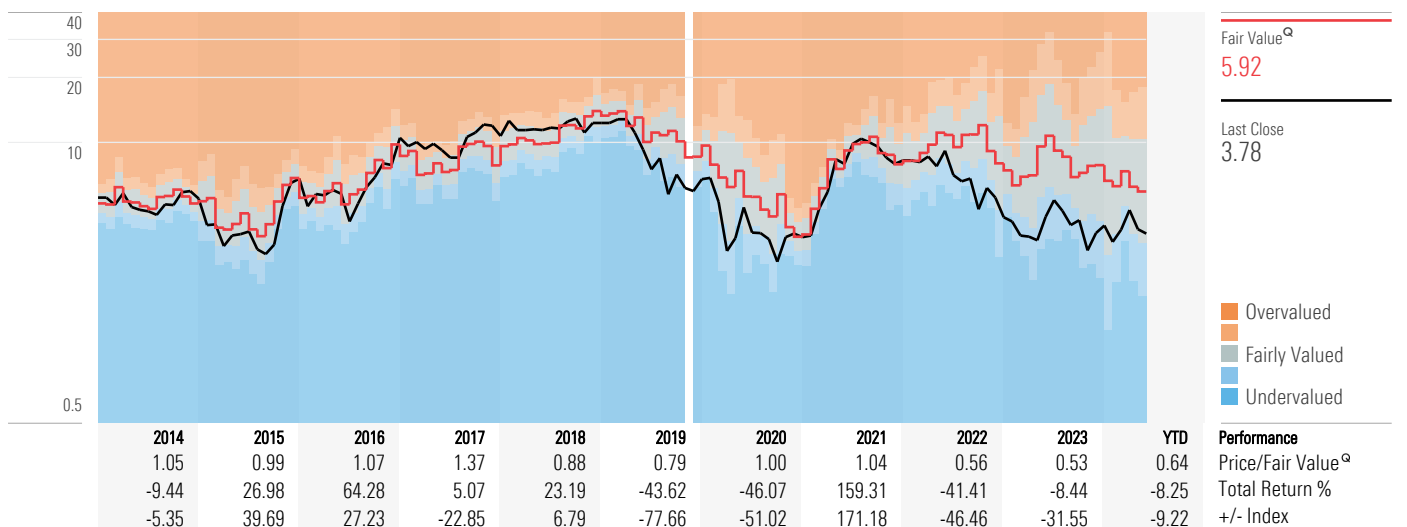


Braskem SA Class A XBRK ★★★ Q 7 May 2024, 22:38 UTC

Economic Moat ^Q	Uncertainty ^Q	Price/Fair Value ^Q	ESG Risk Rating Assessment ¹	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	Extreme	0.6	1 May 2024 05:00, UTC	30.02	2.8819 Bil	Mid Value	Basic Materials	Chemicals



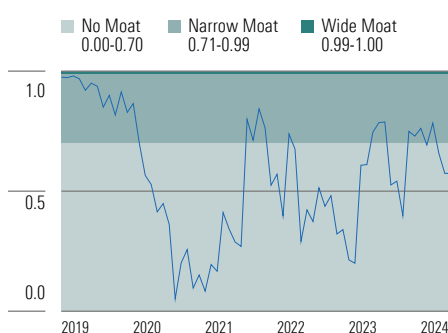
¹The ESG Risk Rating Assessment is a representation of Sustainalytics' ESG Risk Rating. Lee Davidson, Chief Analytics Officer for Morningstar, Inc, oversees the methodology that supports Quantitative Fair Value Estimates and Quantitative Star Ratings. Mr. Davidson is guided by the Morningstar, Inc. Code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

Key Metrics as of 3 May 2024

Metrics	Percentile in Sector
Earnings Yield (%)	-26.1 22.0
Sales Yield (%)	401.4 95.0
Book Value Yield (%)	22.7 18.0
Return on Assets (%)*	-5.1 45.0
Revenue(Bil)*	13.9 96.0
Market Value (Bil)	3.4 87.0
Enterprise Value (Bil)	11.4 93.0
EVMV Ratio	3.4 97.0
Volatility TTM (%)	39.3 41.0
Drawdown TTM (%)	40.6 50.0
Volume (Mil)	4.3 89.0

*31 Dec 2023

Economic Moat^Q History as of 7 May 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 7 May 2024

Morningstar affirms a 4-star quantitative rating for Braskem. We calculate this outcome using the company's underlying model-driven valuation and uncertainty scores.

The stock's last closing price was 3.60, a discount of 35.39% to its Quantitative Fair Value estimate of 5.57. This discount has ranged between 57.99% and 30.65% over the past year. The stock's price to fair value ratio is at the 28th percentile in our global equity coverage universe for this methodology and at the 50th percentile relative to its peers in the basic materials sector.

Braskem furthermore holds a Very High quantitative uncertainty rating.

The company's quantitative star rating dates to after 04/30/2024, before which it was 3-star. Similarly, the firm's uncertainty rating changed from Extreme to Very High after 05/02/2024.

We examine the financials and market statistics for Braskem to determine these ratings. Its enterprise value-to-market value ratio is 3.26 and its trailing 12-month maximum drawdown is 38.62%. These fall at the 94th and 64th percentiles in the equity universe and at the 95th and 47th in the basic materials sector, respectively.

Economic Moat^Q as of 7 May 2024

Morningstar maintains a quantitative moat rating of None on the company. The firm's quantitative moat score of 0.62 sits at the 71st percentile in the basic materials sector. This is a decrease from 0.85, the maximum of its moat scores over the past year. The quantitative financial health rating for Braskem is Moderate. Its financial health score, termed Distance to Default, sits at the 10th percentile in the universe and 9th percentile in the sector.

The significant drivers of these ratings are the company's sales yield and annualized trailing 12-month volatility. The sales yield for Braskem is 384.16%, and its annualized trailing 12-month volatility is 41.46%. They sit at the 91st and 64th percentile in the global equity universe, respectively.

Fundamentals as of 7 May 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 ★★★

Q 7 May 2024, 22:38 UTC

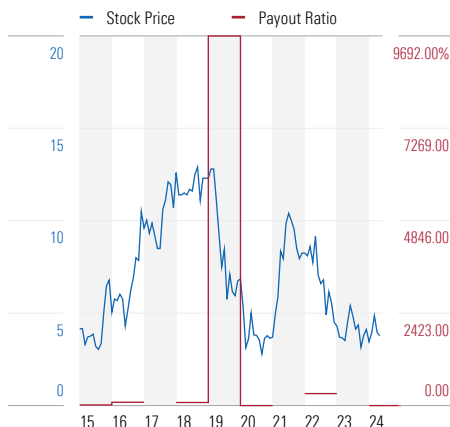
Economic Moat ^Q	Uncertainty ^Q	Price/Fair Value ^Q	ESG Risk Rating Assessment ¹	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	Extreme	0.6		30.02	2.8819 Bil	Mid Value	Basic Materials	Chemicals

Earnings as of 3 May 2024

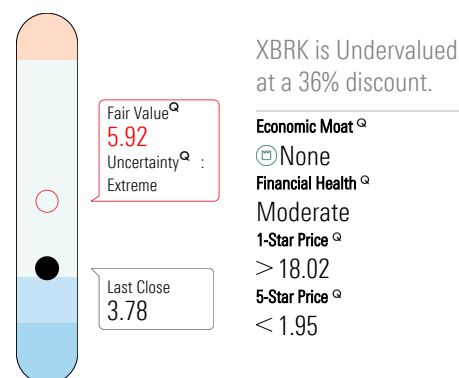
Earnings	%	■ Percentile in Sector
Dividend Yield*	—	—
Payout Ratio*	—	—
Price to Earnings	—	—
Price to Cash Flow	—	—
ROIC**	-3.2	50.0

*—
**31 Dec 2023

Dividends as of 7 May 2024



Valuation ^Q as of 7 May 2024



Financials as of 7 May 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 7 May 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	0.64	Price/Fair Value ^Q
0.31	0.50	0.59	0.69	0.78	0.44	0.35	0.51	0.19	0.24	0.23	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	4.12	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 7 May 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	0.66	0.57	—	—	—	—	—	—	—
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

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, Mr. Lee Davidson, Head of Quantitative Research for Morningstar, Inc., is responsible for overseeing the methodology that supports the quantitative equity ratings used in this report. As an employee of Morningstar, Inc., Mr. Davidson is guided by Morningstar, Inc.'s 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 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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