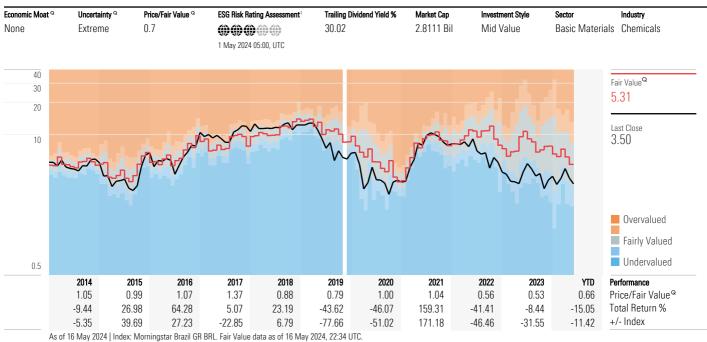
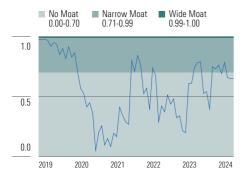
# Braskem SA Class A XBRK ★★★ Q 16 May 2024, 22:34 UTC



'The 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 13 M	ay 2024								
Metrics	Percentile in Sector								
Earnings Yield (%)	-40.2	16.0							
Sales Yield (%)	454.5	96.0							
Book Value Yield (%)	20.3	17.0							
Return on Assets (%)*	-6.6	43.0							
Revenue(Bil)*	13.4	96.0							
Market Value (Bil)	3.0	86.0							
Enterprise Value (Bil)	11.3	93.0							
EVMV Ratio	3.8	97.0							
Volatility TTM (%)	41.6	44.0							
Drawdown TTM (%)	37.4	46.0							
Volume (Mil)	4.2	89.0							
*31 Mar 2024			0%	25	50	75	100		

## Economic Moat <sup>Q</sup>History as of 16 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 <sup>Q</sup>as of 16 May 2024

Morningstar affirms a 3-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 3.50, a discount of 33.74% to its Quantitative Fair Value estimate of 5.28. 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 Extreme quantitative uncertainty rating.

The company's quantitative star rating dates to after 05/06/2024, before which it was 4-star. Similarly, the firm's uncertainty rating changed from Very High to Extreme after 05/06/2024.

We examine the financials and market statistics for Braskem to determine these ratings. Its enterprise value-to-market value ratio is 3.73 and its earnings yield is -39.31%. These fall at the 95th and 12th percentiles in the equity universe and at the 95th and 17th in the basic materials sector, respectively.

### Economic Moat<sup>Q</sup>as of 16 May 2024

Quantitatively, we do not believe Braskem has an economic moat. Its moat score of 0.6 corresponds to the 68th percentile in the basic materials sector. Furthermore, this rating last differed from its previous rating of Narrow on 05/01/2024, when the company's moat score fell from its maximum of 0.85 (score of 1 indicates greatest economic moat). The company also maintains a quantitative financial health rating of Moderate. Its score sits at the 10th percentile overall and the 9th percentile in the sector.

Examining the company's financials and market statistics, we find these ratings are principally driven by its sales yield and annualized trailing 12-month volatility. The sales yield is 444.27%, sitting above the 95th percentile in the basic materials sector. The company's annualized trailing 12-month volatility is 41.52%, corresponding to the 64th percentile in the equity coverage universe and the 44th percentile in the sector.

### Fundamentals as of 16 May 2024

The earnings per share for Braskem is -7.66. The company earns a return on invested capital of - 5.56%, falling at the 45th percentile in the basic materials sector. The company did not report a dividend. We calculate the above figures over a trailing 12-month period.

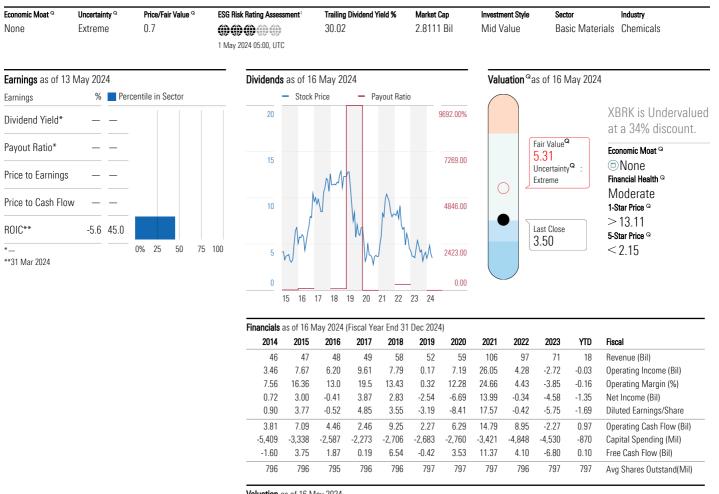
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https://www.braskem.com.br



# Braskem SA Class A XBRK ★★★ ♀ 16 May 2024, 22:34 UTC



luation as of 16 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	0.66	Price/Fair Value Q
0.31	0.50	0.59	0.69	0.78	0.44	0.35	0.51	0.19	0.24	0.22	Price/Sales
17.42	7.84	12.49	29.19	13.923	,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	_	10.35	Price/Cash Flow
1.90	10.05	5.37	4.36	6.05	3.33	_	4.92	2.32	3.51	5.02	Price/Book

<b>Operating Performance</b> as of — (Fiscal Year End 31 Dec 2024)													
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	03	Fiscal (%)		
1.77	5.74	-0.74	7.39	5.07	-4.0	-8.68	15.66	-0.37	-5.09	-1.45	Return on Assets		
12.72	77.91	-17.28	85.53	44.07	-44.51	-498	493	-4.42	-80.95	-38.02	Return on Equity		
4.7	10.42	1.65	15.58	9.47	-3.14	-8.93	25.68	2.79	-3.2	-1.37	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 Moa	Economic Moat <sup>Q</sup> History as of 16 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	0.65	_	_	_	_	_	_	_		
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 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

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%

 $\ensuremath{\textit{Extreme}}\xspace -$  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

## 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.

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

Farily 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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