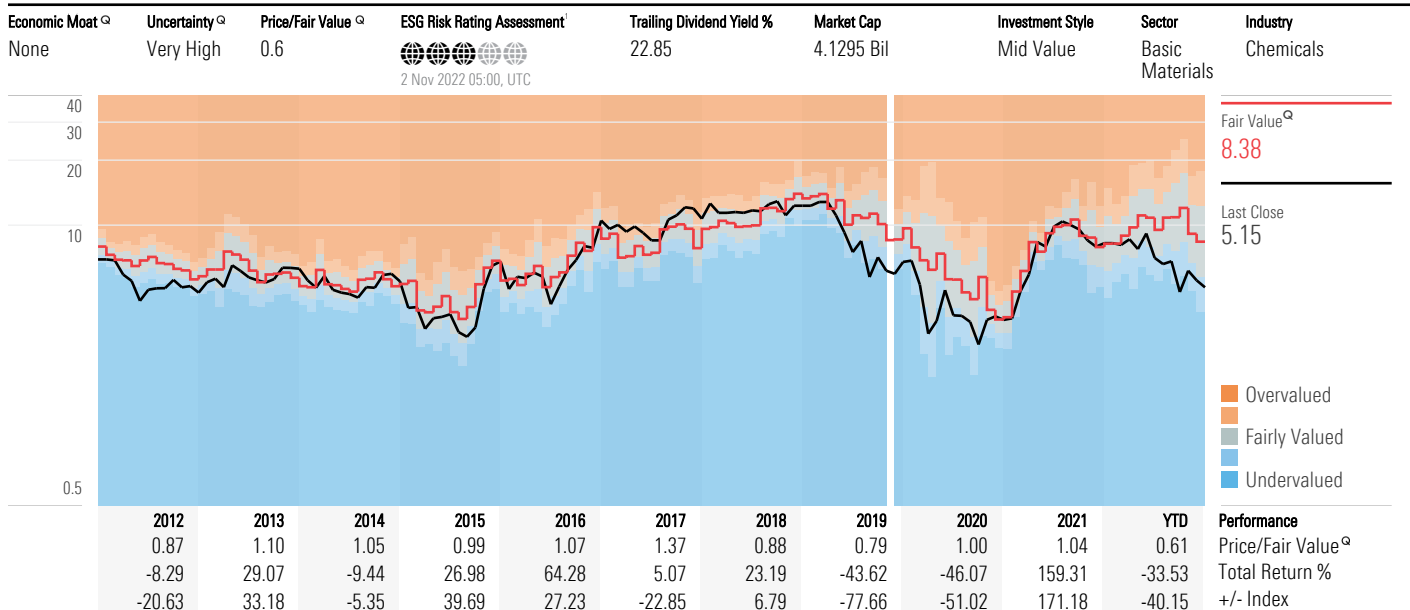


# Braskem SA Class A XBRK ★★★

Q 6 Dec 2022, 00:03 UTC



As of 5 Dec 2022 | Index: Morningstar Brazil GR BRL. Fair Value data as of 6 Dec 2022, 00:03 UTC.

The ESG Risk Rating Assessment is a representation of Sustainalytics' ESG Risk Rating. Lee Davidson, Head of Manger and Quantitative Research, oversees the methodology that supports Quantitative Fair Value Estimates and Quantitative Star Ratings. Mr. Davidson is guided by the Code of Ethics and Investment Research Integrity Policy of Morningstar Research Services LLC, a subsidiary of Morningstar, Inc. Morningstar's Quantitative Research team, which consist of employees of Morningstar, Inc., are guided by Morningstar, Inc.'s Code of Ethics. For information regarding Conflicts of Interests, visit <http://global.morningstar.com/equitydisclosures>.

## Valuation as of 5 Dec 2022



Fair Value<sup>Q</sup>  
8.38  
Uncertainty<sup>Q</sup> :  
Very High

XBRK is Under Valued at a 39% discount.

Economic Moat<sup>Q</sup>

None

Financial Health<sup>Q</sup>

Moderate

1-Star Price<sup>Q</sup>

&gt; 17.84

5-Star Price<sup>Q</sup>

&lt; 3.94

## Contact

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## Financials as of 5 Dec 2022 (Fiscal Year End 31 Dec 2022)

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD	Fiscal
36	41	46	47	48	49	58	52	59	106	78	Revenue (Bil)
1.28	2.99	3.46	7.67	6.20	9.61	7.79	0.17	0.34	26.35	6.11	Operating Income (Bil)
3.55	7.32	7.56	16.36	13.0	19.5	13.43	0.32	0.57	24.94	7.88	Operating Margin (%)
-0.73	0.44	0.72	3.00	-0.41	3.87	2.83	-2.54	-6.69	13.98	1.38	Net Income (Bil)
-0.92	0.52	0.90	3.77	-0.52	4.85	3.55	-3.19	-8.41	17.57	1.73	Diluted Earnings/Share
2.57	2.41	3.81	7.09	4.46	2.46	9.25	2.27	6.29	14.79	6.64	Operating Cash Flow (Bil)
-2.809	-5.682	-5.409	-3.338	-2.587	-2.273	-2.706	-2.683	-2.760	-3.421	-3.317	Capital Spending (Mil)
-0.24	-3.27	-1.60	3.75	1.87	0.19	6.54	-0.42	3.53	11.37	3.32	Free Cash Flow (Bil)
796	796	796	796	795	796	796	797	797	797	796	Avg Shares Outstand(Mil)
0.61	—	0.61	0.61	2.51	—	3.77	0.84	—	—	1.18	Dividend Per Share

## Valuation as of 5 Dec 2022

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Current	Calendar
0.87	1.10	1.05	0.99	1.07	1.37	0.88	0.79	1.00	1.04	0.61	Price/Fair Value <sup>Q</sup>
0.30	0.42	0.31	0.50	0.59	0.69	0.78	0.44	0.35	0.51	0.21	Price/Sales
—	37.39	17.42	7.84	12.49	29.19	13.92	3,515.87	—	4.55	11.81	Price/Earnings
4.09	7.95	4.95	3.04	4.52	12.49	4.53	10.28	5.50	4.42	2.07	Price/Cash Flow
1.23	2.00	1.90	10.05	5.37	4.36	6.05	3.33	—	4.92	2.60	Price/Book

## Operating Performance as of 5 Dec 2022 (Fiscal Year End 31 Dec 2022)

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Q3	Fiscal (%)
-1.86	1.14	1.77	5.74	-0.74	7.39	5.07	-4.0	-8.68	15.66	-1.2	Return on Assets
-7.99	6.32	12.72	77.91	-17.28	85.53	44.07	-44.51	-498	493	-12.15	Return on Equity
-0.82	3.94	4.7	10.42	1.65	15.58	9.47	-3.14	-8.93	25.68	-1.08	Rtn on Invested Capital

## 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 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.

# Quantitative Equity Reports 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.

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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.

**Sustainalytics ESG Risk Rating Assessment:** The ESG Risk Rating Assessment is provided by Sustainalytics; a Morningstar company. Sustainalytics' ESG Risk Ratings measure the degree to which company's economic value at risk is driven by environment, social and governance (ESG) factors.

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/](https://sustainalytics.com/esg-ratings/)

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