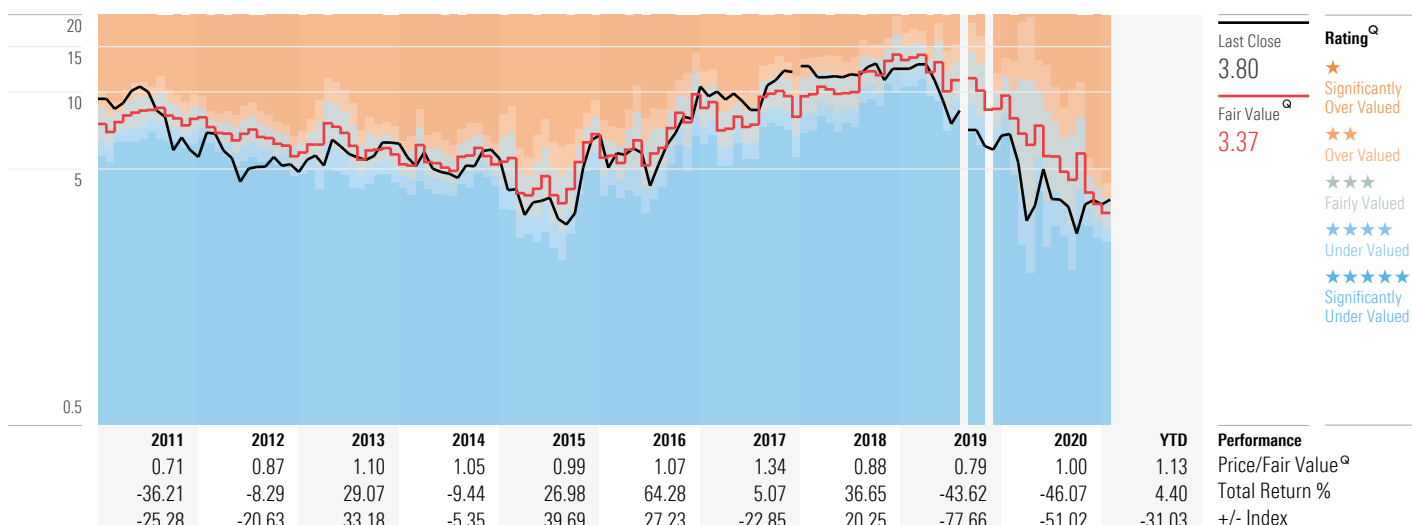


Braskem SA Preferred XBRK ★★★

18 Jan 2021, 23:28 UTC

Economic Moat	Uncertainty	Price/Fair Value	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	High	1.1	5.15	3.2035 Bil	Mid Value	Basic Materials	Chemicals

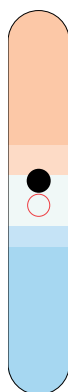


Total Return % as of 18 Jan 2021. Last Close as of 18 Jan 2021. Fair Value as of 18 Jan 2021, 23:28 UTC. Index: Morningstar Brazil GR BRL.

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Valuation

as of 18 Jan 2021



XBRK is Over Valued at a 13% premium.

Last Close
3.80Fair Value
3.37
Uncertainty :
High

Economic Moat

None

Financial Health

Moderate

1-Star Price

> 4.39

5-Star Price

< 2.59

Financials as of 18 Jan 2021 (Fiscal Year End 31 Dec 2020)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	YTD	Fiscal
33	36	41	46	47	48	49	58	52	—	40	Revenue (Bil)
1,894	1,284	2,995	3,460	7,668	6,199	9,607	7,787	277	—	-1,168	Operating Income (Mil)
5.73	3.55	7.32	7.56	16.36	13.0	19.5	13.43	0.53	—	-2.93	Operating Margin (%)
-496	-731	443	716	3,002	-411	3,865	2,828	-2,541	—	-7,538	Net Income (Mil)
-0.62	-0.92	0.52	0.90	3.77	-0.52	4.85	3.55	-3.19	—	-9.47	Diluted Earnings/Share
3	3	2	4	7	4	2	9	2	—	2	Operating Cash Flow (Bil)
-2	-3	-6	-5	-3	-3	-2	-3	-3	—	-2	Capital Spending (Bil)
514	-237	-3,271	-1,596	3,754	1,871	188	6,544	-417	—	522	Free Cash Flow (Mil)
798	796	796	796	796	795	796	796	796	—	796	Avg Shares Outstand(Mil)
0.83	0.61	—	0.61	0.61	2.51	1.26	3.77	0.84	—	—	Dividend Per Share

Valuation as of 18 Jan 2021

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Current	Calendar
0.71	0.87	1.10	1.05	0.99	1.07	1.34	0.88	0.79	1.00	1.13	Price/Fair Value
0.34	0.30	0.42	0.31	0.50	0.59	0.69	0.78	0.44	0.35	0.37	Price/Sales
2,640.05	—	37.39	17.42	7.84	12.49	29.26	13,923	5,158.87	—	3,315.73	Price/Earnings
3.46	4.09	7.95	4.95	3.04	4.52	12.52	4.53	10.28	5.50	5.74	Price/Cash Flow
1.09	1.23	2.00	1.90	10.05	5.37	4.37	6.05	3.33	—	3.89	Price/Book

Operating Performance as of — (Fiscal Year End 31 Dec 2020)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Q3	Fiscal (%)
-1.46	-1.86	1.14	1.77	5.74	-0.74	7.39	5.07	-4.0	—	-1.66	Return on Assets
-5.22	-7.99	6.32	12.72	77.91	-17.28	85.53	44.07	-44.51	—	-187	Return on Equity
5.52	-0.82	3.94	4.7	10.42	1.65	15.58	9.47	-3.14	—	-5.52	Rtn on Invested Capital

Business Description

Braskem SA manufactures and sells chemicals, petrochemicals, fuels, and utilities. The company also generates electricity. The firm's five segments are based on product type or geography. The chemicals Unit segment, which generates the most revenue of any segment, sells petrochemicals

throughout Brazil. The polyolefins segment sells polyethylene and polypropylene. The vinyls segment sells polymer vinyl chloride, caustic soda, and chloride. The USA and Europe Unit includes the production, operations and sale of polypropylene in the United States and Germany. The Mexico Unit includes the production, operations and sale of

ethylene, HDPE and LDPE in Mexico. The majority of revenue comes from Brazil.

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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.

One-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*

Two-Star - 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)*

Three-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)*

Four-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)*

Five-Star – 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

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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.

This Report **has not been made available** to the issuer of the security prior to publication.

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