

LyondellBasell (LYB)

\$89.08 (As of 12/16/20)

Price Target (6-12 Months): **\$94.00**

Long Term: 6-12 Months

Zacks Recommendation:

Neutral

(Since: 05/25/20)

Prior Recommendation: Underperform

Short Term: 1-3 Months

Zacks Rank: (1-5)

3-Hold

Zacks Style Scores:

VGM:C

Value: A

Growth: C

Momentum: F

Summary

Earnings estimates for LyondellBasell for the fourth quarter have been decreasing over the past month. The company is expanding its key projects to leverage on U.S. natural gas liquids. The high-density polyethylene (HDPE) project is also expected to boost capacity. LyondellBasell is also expected to benefit from the construction of propylene oxide and tertiary butyl alcohol (PO/TBA) plant. The A. Schulman buyout will also generate significant cost synergies. The integration of the acquisition is progressing well. The company is also committed toward boosting shareholders' returns. However, the company is seeing challenges in the Refining segment. Moreover, declining margins in the Olefins & Polyolefins — Americas segment are exerting pressure on its results. High debt level is another concern.

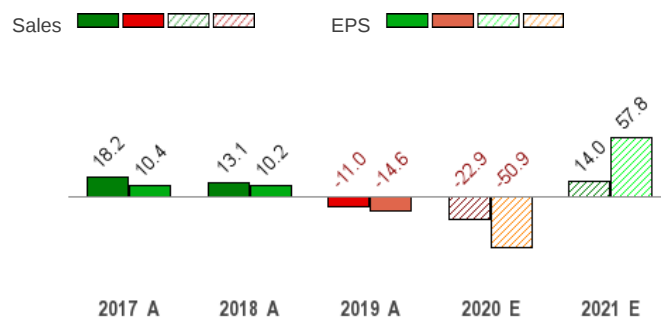
Price, Consensus & Surprise



Data Overview

52-Week High-Low	\$95.82 - \$33.71
20-Day Average Volume (Shares)	1,861,875
Market Cap	\$29.7 B
Year-To-Date Price Change	-5.7%
Beta	1.56
Dividend / Dividend Yield	\$4.20 / 4.7%
Industry	Chemical - Diversified
Zacks Industry Rank	Top 45% (116 out of 255)

Sales and EPS Growth Rates (Y/Y %)



Last EPS Surprise	15.5%
Last Sales Surprise	-1.9%
EPS F1 Estimate 4-Week Change	-0.9%
Expected Report Date	01/29/2021
Earnings ESP	7.3%
P/E TTM	16.6
P/E F1	18.9
PEG F1	2.4
P/S TTM	1.1

Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2021	7,662 E	7,513 E	7,357 E	7,219 E	30,503 E
2020	7,494 A	5,546 A	6,776 A	6,972 E	26,765 E
2019	8,778 A	9,048 A	8,722 A	8,179 A	34,727 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2021	\$2.10 E	\$1.92 E	\$1.77 E	\$1.60 E	\$7.45 E
2020	\$1.52 A	\$0.71 A	\$1.27 A	\$1.22 E	\$4.72 E
2019	\$2.22 A	\$2.75 A	\$2.70 A	\$1.91 A	\$9.62 A

*Quarterly figures may not add up to annual.

The data in the charts and tables, including the Zacks Consensus EPS and Sales estimates, is as of 12/16/2020. The reports text is as of 12/17/2020.

Overview

Based in Rotterdam, the Netherlands, LyondellBasell Industries N.V. is among the leading plastics, chemical and refining companies globally with operations across 18 countries. The company's products are used across a bevy of industries including electronics, automotive parts, packaging, construction materials and biofuels.

LyondellBasell, which emerged from Chapter 11 bankruptcy in 2010, is among the leading global producers of olefins and polyethylene. It is the world's second largest producer of polypropylene. It generated revenues of roughly \$34.7 billion in 2019.

LyondellBasell operates through six segments – Olefins & Polyolefins – Americas; Olefins & Polyolefins - Europe, Asia, International; Intermediates and Derivatives; Advanced Polymer Solutions; Refining; and Technology.

The Olefins & Polyolefins – Americas (21% of 2019 sales) division makes and markets olefins, including ethylene and ethylene co-products, and polyolefins.

The Olefins & Polyolefins - Europe, Asia, International unit (24%) is engaged in the production and distribution of olefins, including ethylene and ethylene co-products, polyolefins and polypropylene compounds.

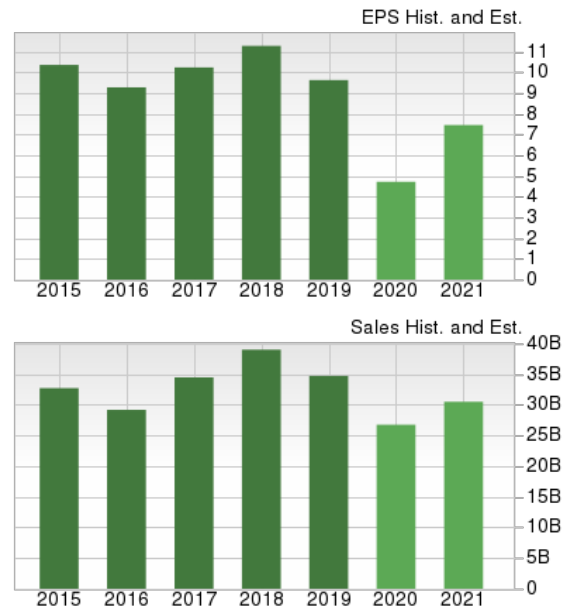
The Intermediates and Derivatives segment (20%) manufactures propylene oxide and its co-products and derivatives, acetyls, including methanol, ethanol, ethylene oxide and its derivatives, and oxygenated fuels (oxyfuels).

The Advanced Polymer Solutions segment (12%) manufactures and markets Compounding & Solutions and Advanced Polymers.

The Refining segment (21%) refines heavy, high-sulfur crude oil and different types of other crude oils as well as sources available on the U.S. Gulf Coast. The company's Houston refinery in Texas has been designed to refine heavy, high-sulfur crude oil.

LyondellBasell's Technology segment (2%) develops and licenses chemical and polyolefin process technologies and also makes and distributes polyolefin catalysts.

LyondellBasell has acquired A. Schulman, Inc. in a deal worth \$2.25 billion. The deal was closed on August 2018 and results from the new business are included prospectively.



Source: Zacks Investment Research

Reasons To Buy:

- ▲ LyondellBasell is benefitting from the favorable North American natural gas environment. It is executing its expansion projects to leverage the U.S. natural gas liquids (NGLs) advantage. The construction of LyondellBasell's new HDPE plant on the U.S. Gulf Coast is complete. It will employ the company's proprietary Hyperzone PE technology and has an annual capacity of 1.1 billion pounds. LyondellBasell is also constructing a world scale plant on the U.S. Gulf Coast for producing propylene oxide and tertiary butyl alcohol. The plant will have annual capacity of 1 billion pounds of PO and 2.2 billion pounds of TBA and its derivatives. It expects the project to be completed in fourth-quarter 2022.
- ▲ LyondellBasell has purchased A. Schulman in a deal worth \$2.25 billion, a move that creates a premier global provider of advanced polymer solutions with extensive geographic reach, leading technologies and a diverse product portfolio. A. Schulman is a leading supplier of high-performance plastic compounds, composites and powders. The buyout doubles the size of LyondellBasell's existing compounding business and creates a platform for future growth with reach into additional high-growth markets such as packaging and consumer products, electronics and appliances, building and construction, and agriculture. LyondellBasell expects to capture \$150 million-to-\$200 million in annual run-rate cost synergies in 2020. The buyout is also expected to be accretive to earnings within the first full year following its closure. The integration of A. Schulman is progressing well. In 2019, the company captured \$130 million in forward annualized run rate synergies.
- ▲ LyondellBasell remains committed to deliver greater value to its shareholders leveraging healthy cash flows. The company generated cash flows from operations of roughly \$5 billion in 2019. In 2019, the company paid out dividends worth \$1.5 billion. As of Sep 30, LyondellBasell had strong cash and liquid investments of \$2.8 billion. In the third quarter, the company paid out dividends worth \$352 million.

LyondellBasell's HDPE project should boost capacity and add to its earnings. The buyout of A. Schulman will also create significant cost synergies.

Reasons To Sell:

- ▼ The company is seeing certain challenges in the Refining segment as well as in the Intermediates and Derivatives business. Results of the Intermediates and Derivatives segment were affected by declining margins in the last reported quarter. A well-supplied market for its Intermediate Chemicals business has put pressure on margins. The segment's EBITDA plunged nearly 32% year over year in the third quarter. Also, losses in the Refining segment widened year over year in third-quarter 2020. Crude throughput fell 48,000 barrels per day due to lower demand for refined products. Factors like surplus industry capacity and reduced demand for transportation fuels are exerting pressure in the Refining business. The company expects margins in the Refining unit to remain under pressure until demand for gasoline and jet fuel returns closer to pre-COVID levels.
- ▼ Declining margins in the Olefins & Polyolefins — Americas segment is a concern. EBITDA of the Olefins & Polyolefins — Americas segment fell around 24% year over year in the third quarter. Ethylene margins also declined due to lower co-product prices. Further, margins in the Olefins & Polyolefins — Europe, Asia, International segment declined around 20% year over year. Olefins results declined due to lower margin stemming from lower ethylene prices. Also, combined polyolefins results were affected by lower polypropylene price spread over propylene.
- ▼ The company's high debt level is another concern. Its long-term debt was \$13,759 million at the end of third-quarter 2020, up from \$13,674 million in the prior quarter. Further, its time-interest-earned ratio of 3.9 at the end of third-quarter 2020 fell from 7.1 in the prior quarter and has also deteriorated over the last several quarters. As such, the company appears to have a higher default risk.

LyondellBasell is seeing certain challenges in the Refining segment and the Intermediates and Derivatives business. Declining Olefins & Polyolefins margins is another concern. High debt level is another cause of worry.

Last Earnings Report

LyondellBasell's Q3 Earnings Top, Sales Lag Estimates

LyondellBasell posted profits of \$114 million or 33 cents per share in third-quarter 2020, down from \$965 million or \$2.85 in the year-ago quarter.

Barring one-time items, adjusted earnings came in at \$1.27 cents per share that topped the Zacks Consensus Estimate of \$1.10.

Revenues fell 22.3% year over year to \$6,776 million in the reported quarter. The figure also trailed the consensus mark of \$6,909.3 million.

Consolidated EBITDA fell 69.2% year over year to \$466 million.

The company witnessed improved demand for its products in the quarter on the back of higher global economic activities.

Segment Review

In the Olefins & Polyolefins — Americas division, EBITDA fell 24.4% year over year to \$474 million. Polyolefin results dropped around \$60 million due to lower margins.

The Olefins & Polyolefins — Europe, Asia, International segment witnessed a fall in EBITDA of 20% year over year to \$148 million. Olefins results declined around \$115 million due to lower margin stemming from lower ethylene prices. Combined polyolefins results were affected by lower polypropylene price spread over propylene.

The Advanced Polymer Solutions segment posted EBITDA \$157 million, up from \$102 million in the year-ago quarter. Compounding & Solutions results were essentially flat as higher margins were offset by lower volumes.

EBITDA in the Intermediates and Derivatives segment fell 31.5% on a year-over-year basis to \$267 million.

The Refining segment came at a loss of \$692 million in the reported quarter compared with a loss of \$6 million in the year-ago quarter. Crude throughput fell 48,000 barrels per day due to lower demand for refined products.

The Technology segment's EBITDA fell to \$111 million in the reported quarter, up 33.7% year over year. The upside was driven by higher licensing revenues.

Financials

As of Sep 30, LyondellBasell had cash and liquid investments of \$2.8 billion.

In the third quarter, the company paid out dividends worth \$352 million. It also had 334 million common shares outstanding as of Sep 30.

Outlook

The company believes that the petrochemical industry should gain from recovery in global economies. For 2020, it expects global polyethylene demand to grow notwithstanding the pandemic and a recession. Also, China's polyethylene trade deficit supports North American exports and tightens the U.S. domestic market. For the fourth quarter, LyondellBasell expects continued strength in North American integrated polyethylene margins.

The company also believes that a slow recovery in global mobility will exert pressure on demand for gasoline and jet fuel that will extend headwinds for its Refining and Oxyfuels & Related Products businesses. The company's order books reflect higher demand from automotive manufacturing and other durable goods markets. This is likely to boost performance in the Advanced Polymer Solutions segment.

Quarter Ending	09/2020
Report Date	Oct 30, 2020
Sales Surprise	-1.93%
EPS Surprise	15.45%
Quarterly EPS	1.27
Annual EPS (TTM)	5.41

Recent News

LyondellBasell and SUEZ Acquire TIVACO, Expand Capacity

On **Dec 7, 2020**, LyondellBasell and SUEZ jointly announced the acquisition of TIVACO, which is a plastic recycling company located in Blandain, Belgium. TIVACO will become a part of Quality Circular Polymers ("QCP"), the companies' existing 50/50 plastics recycling joint venture.

With this new acquisition, QCP will boost production capacity for recycled materials to around 55,000 tons per year. TIVACO operates five production lines with a processing capacity of roughly 22,000 tons of recycled plastic per year.

QCP is dedicated toward ending plastic waste in the environment. The joint venture capitalizes on the strengths of the two companies. LyondellBasell will leverage its long-standing leadership in innovative plastic production technology, experience in product development and deep knowledge of the market. SUEZ will make use of its leading-edge technology solutions in sorting and recycling to improve the preparation of materials to be recovered at QCP.

SUEZ and LyondellBasell are a part of the Alliance to End Plastic Waste - a global, cross-value chain non-profit organization dedicated toward ending plastic waste in the environment. It brings together diversified resources and expertise for the creation of innovative solutions globally.

LyondellBasell Unveils MFR 1500 Grade for Face Masks

On **Nov 24, 2020**, LyondellBasell announced that it has introduced a new Melt Flow Rate (MFR) 1500 grade for melt-blown non-woven applications, Moplen HP560Z. The company will produce it through its facilities in Spain.

The availability of medical and safety equipment, particularly face masks, continues to be primordial amid the coronavirus pandemic. The company stated that MFR 1500 grades for melt-blown non-woven applications are mainly produced in Asian countries. In Europe, its demand has seen an increase with the growing number of protective equipment of regional production entities. This created the need for swift regional solution for a high-end medical grade in Europe. Notably, LyondellBasell is the first to offer this type of high-fluidity polypropylene grade in the region.

Further, the company commercialized Moplen HP560Z to support this continuous need for face masks and their local production in Europe. The high fluidity of the new grade enables the development of face masks.

Additional advantages of the Moplen HP560Z grade is that it can be tailored explicitly for the small-scale melt-blown non-woven machines that are mostly used for face mask production in Europe.

LyondellBasell Enters Into Joint Venture Deal With Sasol

LyondellBasell, on **Oct 3, 2020**, inked a definitive agreement with Sasol to form a 50-50 joint venture (JV). Through the JV, LyondellBasell will acquire 50% of Sasol's 1.5 MM ton ethane cracker, 0.9 MM ton low and linear-low density polyethylene plants along with associated infrastructure for \$2 billion. The JV will be known as Louisiana Integrated PolyEthylene JV LLC.

Per the agreement, both partners will provide pro-rata shares of ethane feedstocks. The JV partners will also offtake pro-rata shares of polyethylene products and cracker at cost. Further, LyondellBasell stated that it will operate the U.S. Base Chemicals assets.

The deal, which is subject to customary closing conditions, is expected to close by the end of 2020.

Per LyondellBasell, the newly-constructed assets of the JV are strategically located on the U.S. Gulf Coast. It has access to storage and logistics infrastructure as well as low-cost feedstock. LyondellBasell's investment in the JV enables it to expand in a core business area leveraging operational and commercial strengths. LyondellBasell is also expected to realize immediate returns from investing in these assets and eliminate customary construction risks.

Valuation

LyondellBasell's shares are down 5.8% in the year-to-date period and down 6.4% over the trailing 12-month period. Stocks in the Zacks Chemical - Diversified industry and Zacks Basic Materials sector are up 8.2% and up 16.7% in the year-to-date period, respectively. Over the past year, the Zacks sub-industry and sector are down 8.6% and up 18.4%, respectively.

The S&P 500 index is up 14.7% in the year-to-date period and up 16% in the past year.

The stock is currently trading at 11.79X trailing 12-month enterprise value-to-EBITDA (EV/EBITDA) ratio, which compares to 9.66X for the Zacks sub-industry, 10.73X for the Zacks sector and 16.47X for the S&P 500 index.

Over the past five years, the stock has traded as high as 11.96X and as low as 4.16X, with a 5-year median of 6.94X.

Our Neutral recommendation indicates that the stock will perform in-line with the market. Our \$94 price target reflects 12.98X forward 12-month earnings per share.

The table below shows summary valuation data for LYB:

Valuation Multiples - LYB					
		Stock	Sub-Industry	Sector	S&P 500
EV/EBITDA TTM	Current	11.79	9.66	10.73	16.47
	5-Year High	11.96	13.12	18.21	16.53
	5-Year Low	4.16	5.19	6.46	9.54
	5-Year Median	6.94	7.61	9.75	13.17
P/E F 12M	Current	12.3	19.05	13.34	22.67
	5-Year High	12.97	19.09	21.04	23.47
	5-Year Low	3.77	8.97	10.25	15.27
	5-Year Median	8.75	13.26	13.41	17.77
P/B TTM	Current	4.06	2.19	3.17	6.26
	5-Year High	6.47	2.82	3.17	6.28
	5-Year Low	1.44	0.87	1.22	3.74
	5-Year Median	4.22	1.75	2.22	4.92

As of 12/16/2020

Source: Zacks Investment Research

Industry Analysis Zacks Industry Rank: Top 45% (116 out of 255)



Source: Zacks Investment Research

Top Peers

Company (Ticker)	Rec	Rank
Dow Inc. (DOW)	Outperform	3
Exxon Mobil Corporation (XOM)	Outperform	1
BASF SE (BASFY)	Neutral	3
Eastman Chemical Company (EMN)	Neutral	3
Huntsman Corporation (HUN)	Neutral	2
Stepan Company (SCL)	Neutral	3
Westlake Chemical Corporation (WLK)	Neutral	3
Air Products and Chemicals, Inc. (APD)	Underperform	5

The positions listed should not be deemed a recommendation to buy, hold or sell.

Industry Comparison Industry: Chemical - Diversified				Industry Peers		
	LYB	X Industry	S&P 500	APD	EMN	WLK
Zacks Recommendation (Long Term)	Neutral	-	-	Underperform	Neutral	Neutral
Zacks Rank (Short Term)	3	-	-	5	3	3
VGM Score	C	-	-	B	A	C
Market Cap	29.75 B	3.30 B	26.40 B	59.44 B	13.78 B	10.37 B
# of Analysts	6	3	14	6	7	3
Dividend Yield	4.71%	1.32%	1.51%	1.99%	2.71%	1.33%
Value Score	A	-	-	D	B	B
Cash/Price	0.10	0.11	0.06	0.11	0.05	0.11
EV/EBITDA	7.11	10.10	14.41	16.28	10.76	9.12
PEG F1	2.43	4.08	2.80	3.40	4.64	3.49
P/B	4.06	2.10	3.58	4.77	2.24	1.60
P/CF	6.28	8.65	13.86	19.50	8.65	9.18
P/E F1	18.99	22.96	21.99	28.98	17.15	40.79
P/S TTM	1.06	1.09	2.77	6.71	1.62	1.40
Earnings Yield	5.30%	4.00%	4.33%	3.45%	5.83%	2.45%
Debt/Equity	1.88	0.64	0.70	0.60	0.89	0.57
Cash Flow (\$/share)	14.19	3.13	6.94	13.79	11.76	8.84
Growth Score	C	-	-	B	B	D
Historical EPS Growth (3-5 Years)	-5.33%	5.00%	9.69%	5.00%	-0.64%	-7.42%
Projected EPS Growth (F1/F0)	-50.95%	-15.75%	1.00%	10.72%	-16.83%	-38.96%
Current Cash Flow Growth	-16.46%	-9.97%	5.22%	4.97%	-9.97%	-31.71%
Historical Cash Flow Growth (3-5 Years)	-3.48%	4.70%	8.33%	5.92%	1.05%	3.87%
Current Ratio	2.25	1.93	1.38	3.59	1.98	2.78
Debt/Capital	65.45%	39.58%	42.00%	37.39%	47.16%	36.20%
Net Margin	4.23%	4.05%	10.44%	21.30%	5.56%	3.89%
Return on Equity	24.09%	9.09%	14.99%	15.48%	13.12%	3.57%
Sales/Assets	0.90	0.71	0.50	0.40	0.53	0.54
Projected Sales Growth (F1/F0)	-22.93%	-2.33%	0.35%	9.45%	-9.25%	-9.97%
Momentum Score	F	-	-	A	A	D
Daily Price Change	0.08%	0.00%	-0.25%	-0.41%	0.22%	-0.66%
1-Week Price Change	-0.85%	-1.12%	-1.29%	-2.34%	0.11%	2.21%
4-Week Price Change	8.37%	3.40%	3.00%	0.45%	5.14%	8.47%
12-Week Price Change	27.27%	15.28%	18.91%	-5.79%	32.06%	30.41%
52-Week Price Change	-6.40%	1.76%	6.25%	15.35%	27.51%	15.77%
20-Day Average Volume (Shares)	1,861,875	143,664	1,961,038	1,204,922	954,878	262,168
EPS F1 Estimate 1-Week Change	-0.93%	0.00%	0.00%	1.70%	0.24%	0.00%
EPS F1 Estimate 4-Week Change	-0.87%	0.00%	0.00%	1.70%	0.75%	0.00%
EPS F1 Estimate 12-Week Change	-2.23%	3.56%	3.94%	-5.84%	7.31%	7.86%
EPS Q1 Estimate Monthly Change	-2.98%	0.00%	0.00%	0.00%	2.84%	-2.05%

Source: Zacks Investment Research

Zacks Stock Rating System

We offer two rating systems that take into account investors' holding horizons: Zacks Rank and Zacks Recommendation. Each provides valuable insights into the future profitability of the stock and can be used separately or in combination with each other depending on your investment style.

Zacks Recommendation

The Zacks Recommendation aims to predict performance over the next 6 to 12 months. The foundation for the quantitatively determined Zacks Recommendation is trends in the company's estimate revisions and earnings outlook. The Zacks Recommendation is broken down into 3 Levels; Outperform, Neutral and Underperform. Unlike many Wall Street firms, we maintain a balance between the number of Outperform and Neutral recommendations. Our team of 70 analysts are fully versed in the benefits of earnings estimate revisions and how that is harnessed through the Zacks quantitative rating system. But we have given our analysts the ability to override the Zacks Recommendation for the 1200 stocks that they follow. The reason for the analyst over-rides is that there are often factors such as valuation, industry conditions and management effectiveness that a trained investment professional can spot better than a quantitative model.

Zacks Rank

The Zacks Rank is our short-term rating system that is most effective over the one- to three-month holding horizon. The underlying driver for the quantitatively-determined Zacks Rank is the same as the Zacks Recommendation, and reflects trends in earnings estimate revisions.

Zacks Style Scores

The Zacks Style Score is as a complementary indicator to the Zacks rating system, giving investors a way to focus on the highest rated stocks that best fit their own stock picking preferences.

Academic research has proven that stocks with the best Value, Growth and Momentum characteristics outperform the market. The Zacks Style Scores rate stocks on each of these individual styles and assigns a rating of A, B, C, D and F. We also produce the VGM Score (V for Value, G for Growth and M for Momentum), which combines the weighted average of the individual Style Scores into one score. This is perfectly suited for those who want their stocks to have the best scores across the board.

Value Score	A
Growth Score	C
Momentum Score	F
VGM Score	C

As an investor, you want to buy stocks with the highest probability of success. That means buying stocks with a Zacks Recommendation of Outperform, which also has a Style Score of an A or a B.

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Returns quoted represent past performance which is no guarantee of future results. Investment returns and principal value will fluctuate so that when shares are redeemed, they may be worth more or less than their original cost. Current performance may be higher or lower than the performance shown.

Investing involves risk; principal loss is possible. There is no guarantee that companies that can issue dividends will declare, continue to pay or increase dividends.

Glossary of Terms and Definitions

52-Week High-Low: The range of the highest and lowest prices at which a stock has traded during the past year. This range is determined based on the stock's daily closing price which may differ from the intra-day high or low. Many investors use it as a technical indicator to determine a stock's current value and future price movement. The idea here is that if price breaks out from the 52-week range, in either direction, the momentum may continue in the same direction.

20-Day Average Volume (Shares): The average number of shares of a company traded in a day over the last 20 days. It is a direct indication of a security's overall liquidity. The higher the average daily trading volume, the easier it is to enter or exit the stock at a desired price with more buyers and sellers being available.

Daily Price Change: This is the percentage difference between a trading day's closing price and the prior trading day's closing price. This item is updated at 9 p.m. EST each day.

1-Week Price Change: This is the percentage change in a stock's closing price over the last 5 trading days. This change reflects the collective buying and selling sentiment over the 1-week period.

A strong weekly price increase for the stock, especially when accompanied by increased volume, is an indication of it gaining momentum.

4-Week Price Change: This is the percentage change in a stock's closing price over the last 20 trading days or past 4 weeks. This is a medium-term price change metric and an indication of the stock gaining momentum.

12-Week Price Change: This is the percentage change of a stock's closing price over the last 60 trading days or past 12 weeks. Similar to 4-week price change, this is a medium-term price change metric. It shows whether a stock has been enjoying strong investor demand, or if it has been in consolidation, or distress over this period.

52-Week Price Change: This is the percentage change in a stock's closing price over the last 260 trading days or past 52 weeks. This long-term price change metric is a good reference point for investors. Some investors seek stocks with the best percentage price change over the last 52 weeks, expecting the momentum to continue.

Market Cap: The number of outstanding common shares of a company times its latest price per share. This figure represents a company's size, which indicates various characteristics, including price stability and risk, in which investors could be interested.

Year-To-Date Price Change: Change in a stock's daily closing price in the period of time beginning the first day of the current calendar year through to the previous trading day.

of Analysts: Number of EPS estimates used in calculating the current-quarter consensus. These estimates come from the brokerage analysts tracking this stock. However, the number of such analysts tracking this stock may not match the number of estimates, as all brokerage analysts may not come up with an estimate or provide it to us.

Beta: A measure of risk commonly used to compare the volatility of a stock to the overall market. The S&P 500 Index is the base for calculating beta and carries a value of 1. A stock with beta below 1 is less risky than the market as a whole. And a stock with beta above 1 is riskier.

Dividend: The portion of earnings a company is expected to distribute to its common shareholders in the next 12 months for each share they own. Dividends are usually paid quarterly. Dividend payments reflect positively on a company and help maintain investors' trust. Investors typically find dividend-paying stocks appealing because the dividend adds to any market price appreciation to result in higher return on investment (ROI). Moreover, a steady or increasing dividend payment provides investors a cushion in a down market.

Dividend Yield: The ratio of a company's annual dividend to its share price. The annual dividend used in the ratio is calculated based on the most recent dividend paid by the company. Dividend yield is an estimate of the dividend-only return from a stock in the next 12 months. Since dividend itself doesn't change frequently, dividend yield usually changes with a stock's price movement. As a result, often an unusually high dividend yield is a result of weak stock price.

S&P 500 Index: The Standard & Poor's 500 (S&P 500) Index is an unmanaged group of securities considered to be representative of the stock market in general. It is a market-capitalization-weighted index of stocks of the 500 largest U.S. companies. Each stock's weight in the index is proportionate to its market value.

Industry: One of the 250+ groups that Zacks classifies all stocks into based on the nature of business. These groups are termed as expanded (aka "X") industries and map to their respective (economic) sectors; Zacks has 16 sectors.

Zacks Industry Rank: The Zacks Industry Rank is determined by calculating the average Zacks Rank for all stocks in the industry and then assigning an ordinal rank to it. For example, an industry with an average Zacks Rank of 1.6 is better than an industry with an average Zacks Rank of 2.3. So, the industry with the better average Zacks Rank would get a better Zacks Industry Rank. If an industry has the best average Zacks Rank, it would be considered the top industry (1 out of 250+), which would place it at the top 1% of Zacks-ranked industries. Studies have shown that roughly half of a stock's price movement can be attributed to the industry group it belongs to. In fact, the top 50% of Zacks-ranked industries outperforms the bottom 50% by a factor of more than 2 to 1.

Last EPS Surprise: The percentage deviation of a company's last reported earnings per share from the Zacks Consensus Estimate. Companies with a positive earnings surprise are more likely to surprise again in the future (or miss again if they recently missed).

Last Sales Surprise: The percentage deviation of a company's last reported sales from the Zacks Consensus Estimate.

Expected Report Date: This is an estimated date of a company's next earnings release. The information originated or gathered by Zacks Investment Research from its information providers or publicly available sources is the basis of this estimate.

Earnings ESP: The Zacks Earnings ESP compares the Most Accurate Estimate to the Zacks Consensus Estimate for the yet-to-be reported quarter. The Most Accurate Estimate is the most recent version of the Zacks Consensus EPS Estimate. The idea here is that analysts revising their estimates closer to an earnings release have the latest information, which could potentially be more accurate than what they and others contributing to the consensus had predicted earlier. Thus, a positive or negative Earnings ESP reading theoretically indicates the likely deviation of the actual earnings from the consensus estimate. However, the model's predictive power is significant for positive ESP readings only. A positive Earnings ESP is a strong predictor of an earnings beat, particularly when combined with a Zacks Rank #1 (Strong Buy), #2 (Buy) or #3 (Hold). Our research shows that stocks with this combination produce a positive surprise nearly 70% of the time.

Periods:

TTM: Trailing 12 months. Using TTM figures is an effective way of analyzing the most-recent financial data in an annualized format that helps neutralize the effects of seasonality and other quarter-to-quarter variation.

F1: Current fiscal year. This period is used to analyze the estimates for the ongoing full fiscal year.

F2: Next fiscal year. This period is used to analyze the estimates for the next full fiscal year.

F12M: Forward 12 months. Using F12M figures is an effective way of analyzing the near-term (the following four unreported quarters) estimates in an annualized manner. Instead of typically representing estimates for the full fiscal year, which may not represent the nitty-gritty of each quarter, F12M figures suggest an all-inclusive annualized estimate for the following four quarters. The annualization helps neutralize the potential effects of seasonality and other quarter-to-quarter variations.

P/E Ratio: The price-to-earnings ratio measures a company's current market price per share relative to its earnings per share (EPS). Usually, the trailing-12-month (TTM) EPS, current-fiscal-year (F1) EPS estimate, or forward-12-month (F12M) EPS estimate is used as the denominator. In essence, this ratio shows what the market is willing to pay today for each dollar of EPS. In other words, this ratio gives a sense of what the relative value of the company is at the already reported level of earnings or at a future level of earnings.

It is one of the most widely-used multiples for determining the value of a company and helps comparing its valuation with that of a competitor, the industry group or a benchmark.

PEG Ratio: The price/earnings to growth ratio is a stock's P/E ratio using current fiscal year (F1) EPS estimate divided by its expected EPS growth rate over the coming 3 to 5 years. This ratio essentially determines a stock's value by factoring in the company's expected earnings growth and is thus believed to provide a more complete picture than just the P/E ratio, particularly for faster-growing companies.

P/S Ratio: The price-to-sales ratio is calculated as a company's current price per share divided by trailing 12 months (TTM) sales or revenues per share. This ratio shows what the market is willing to pay today for each dollar of TTM sales per share. The P/S ratio is at times the only valuation metric when the company has yet to become profitable.

Cash/Price Ratio: The cash-to-price ratio or Cash Yield is calculated as cash and marketable securities per share divided by the company's current share price. Like the earnings yield, which shows the anticipated yield (or return) on a stock from earnings for each dollar invested, the cash yield does the same, with cash being the source of return instead of earnings. For example, a cash/price ratio of 0.08 suggests a return of 8% or 8 cents for every \$1 investment.

EV/EBITDA Ratio: The EV/EBITDA ratio, also known as Enterprise Multiple, is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by EBITDA (earnings before interest, taxes, depreciation and amortization). Usually, trailing-12-month (TTM) or forward-12-month (F12M) EBITDA is used as the denominator.

EV/Sales Ratio: The enterprise value-to-sales ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by annual sales. It is an expansion of the P/S valuation, which uses market value instead of enterprise value. The EV/Sales ratio is perceived as more accurate than P/S, in part, because the market capitalization does not take a company's debt into account when valuing it.

EV/CF Ratio: The enterprise value-to-cash flow ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by the trailing-12-month (TTM) operating cash flow. It's a measure of how long it would take to buy the entire business if you were able to use all the company's operating cash flow.

The EV/CF ratio is perceived as more accurate than the P/CF ratio, in part, because the market price does not take a company's debt into account when valuing it.

EV/FCF Ratio: The enterprise value-to-free cash flow metric compares a company's enterprise value to its trailing-12-month (TTM) free cash flow (FCF). This metric is very similar to the EV/CF ratio, but is considered a more exact measure owing to the fact that it uses free cash flow, which subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding growth activities and payments to shareholders.

P/EBITDA Ratio: The P/EBITDA ratio is calculated as a company's per share market value divided by EBITDA (earnings before interest, taxes, depreciation, and amortization). This metric is very similar to the EV/EBITDA ratio, but is considered a little less exact measure as it uses market price, which does not take a company's debt into account. However, since EBITDA is often considered a proxy for cash income, the metric is used as a measure of what the market is willing to pay today for each dollar of the company's cash profitability in the trailing 12 months (TTM) or forward 12 months (F12M).

P/B Ratio: The price-to-book ratio is calculated as a company's current price per share divided by its book value (total assets – liabilities – preferred stocks) per share. In short, the book value is how much a company is worth. In other words, it reflects the total value of a company's assets that its common shareholders would receive if it were to be liquidated. So, the P/B ratio indicates whether you're paying higher or lower than what would remain if the company went bankrupt immediately. Investors typically use this metric to determine how a company's stock price stacks up to its intrinsic value.

P/TB Ratio: The price-to-tangible-book value ratio is calculated as a the per share market value of a company divided by the value of its tangible assets (total assets – liabilities – preferred stocks – intangible assets) per share. Tangible book value is the same thing as book value except it excludes the value of intangible assets to get a step closer to the baseline value of the company.

P/CF Ratio: The price-to-cash flow ratio measures a company's per share market price relative to its trailing-12-month (TTM) operating cash flow per share. This metric is used to determine whether a company is undervalued or overvalued relative to another stock, industry or sector. And like the P/E ratio, a lower number is typically considered better from the value perspective.

One of the reasons why P/CF ratio is often preferred over P/E ratio is the fact that operating cash flow adds back non-cash expenses such as depreciation and amortization to net income. This feature helps valuing stocks that have positive cash flow but are not profitable because of large noncash charges.

P/FCF Ratio: The price-to-free cash flow ratio is an extension of P/CF ratio, which uses trailing-12-month (TTM) free cash flow per share instead of operating cash flow per share. This metric is considered a more exact measure than P/CF ratio, as free cash flow subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding activities that generate additional revenues.

Earnings Yield: The earnings yield is calculated as current fiscal year (F1) EPS estimate divided by the company's current share price. The ratio, which is the inverse of the P/E ratio, measures the anticipated yield (or return) from earnings for each dollar invested in a stock today.

For example, earnings yield for a stock, which is trading at \$35 and expected to earn \$3 per share in the current fiscal year (F1), would be 0.0857 ($3/35 = 0.0857$) or 8.57%. In other words, for \$1 invested in the stock today, the yield from earnings is anticipated to be 8.57 cents.

Investors most commonly compare the earnings yield of a stock to that of a broad market index (such as the S&P 500) and prevailing interest rates, such as the current 10-year Treasury yield. Since bonds and stocks compete for investors' dollars, stock investors typically demand a higher yield for the extra risk they assume compared to investors of U.S. Treasury-backed securities that offer virtually risk-free returns. This additional return is referred to as the risk premium.

Debt/Equity Ratio: The debt-to-equity ratio is calculated as a company's total liabilities divided by its shareholder equity. This metric is used to gauge a company's financial leverage. In other words, it is a measure of the degree to which a company is financing its operations through debt versus its own funds. The higher the ratio, the higher the risk for shareholders.

However, this ratio is difficult to compare across industry groups where ideal amounts of debt vary. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-equity ratio should be compared with other companies in the same industry.

Cash Flow (\$/share): Cash flow per share is calculated as operating cash flow (after-tax earnings + depreciation + other non-cash charges) divided by common shares outstanding. It is used by many investors as a measure of a company's financial strength. Since cash flow per share takes into consideration a company's ability to generate cash by adding back non-cash expenses, it is regarded by some as a more accurate measure of a company's financial situation than earnings per share, which could be artificially deflated.

Current Ratio: The current ratio or liquidity ratio is a company's current assets divided by its current liabilities. It measures a company's ability to pay short-term obligations. A current ratio that is in line with the industry average or slightly higher is generally considered acceptable. A current ratio that is lower than the industry average would indicate a higher risk of distress or default. A higher number is usually better. However, a very high current ratio compared to the industry average could be an indication of inefficient use of assets by management.

Debt/Capital Ratio: Debt-to-capital ratio is a company's total debt (interest-bearing debt + both short- and long-term liabilities) divided its total capital (interest-bearing debt + shareholders' equity). It is a measure of a company's financial leverage. All else being equal, the higher the debt-to-capital ratio, the riskier the stock.

However, this ratio can vary widely from industry to industry, the ideal amount of required debt being different. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-capital ratio should be compared with the same for its industry.

Net Margin: Net margin is calculated as net income divided by sales. It shows how much of each dollar in sales generated by a company translates into profit. For example, if a company's net margin is 15%, its net income is 15 cents for every \$1 of sales it makes.

A change in margin can reflect either a change in business conditions, or a company's cost controls, or both. If a company's expenses are growing faster than sales, its net margin will decline. However, different net margin rates are considered good for different industries, so it's better to compare net margin rates of companies in the same industry group.

Return on Equity: Return on equity (ROE) is calculated as trailing-12-month net income divided by trailing-12-month average shareholder equity (including reinvested earnings). This metric is considered a measure of how effectively management is using a company's assets to generate profits. For example, if a company's ROE is 10%, it creates 10 cents profits for every \$1 shareholder equity, which is basically the company's assets minus debt. A company's ROE deemed good or bad depends on what's normal for its peers or industry group.

Sales/Assets Ratio: The sales-to-assets ratio or asset utilization ratio or asset turnover ratio is calculated as a company's annual sales divided by average assets (average of assets at the beginning of the year and at the year's end). This metric helps investors understand how effectively a company is using its assets to generate sales. For example, a sales-to-assets ratio of 2.5 indicates that the company generated \$2.50 in sales for every \$1 of assets on its books.

The higher the sales-to-assets ratio, the better the company is performing. However, similar to many other ratios, the asset turnover ratio tends to be higher for companies in certain industries/sectors than in others. So, a company's sales-to-assets ratio should be compared with the same for its industry/sector.

Historical EPS Growth (3-5 Years): This is the average annual (trailing-12-month) EPS growth rate over the last 3-5 years. This metric helps investors see how a company's EPS has grown from a long-term perspective.

Note: There are many factors that can influence short-term numbers — a recession will reduce this number, while a recovery will inflate it. The longterm perspective helps smooth out short-term events.

Projected EPS Growth (F1/F0): This is the estimated EPS growth rate for the current financial year. It is calculated as the consensus estimate for the current fiscal year (F1) divided by the reported EPS for the last completed fiscal year (F0).

Current Cash Flow Growth: It measures the latest year-over-year change in operating cash flow. Cash flow growth tells an investor how quickly a company is generating inflows of cash from operations. A positive change in the cash flow is desired and shows that more 'cash' is coming in than going out.

Historical Cash Flow Growth (3-5 Years): This is the annualized change in cash flow over the last 3-5 years. The change in a longer period helps put the current reading into proper perspective. By looking at the rate, rather than the actual dollar value, the comparison across the industry and peers becomes easier.

Projected Sales Growth (F1/F0): This metric looks at the estimated sales growth for the current year. It is calculated as sales estimate for the current fiscal year (F1) divided by the reported sales for the last completed fiscal year (F0).

Like EPS growth, a higher rate is better for sales growth. A look at a company's projected sales growth instantly tells you what the outlook is for their products and services. However, different sales growth rates are considered good for different industries, so it's better to compare sales growth rates of companies in the same industry group.

EPS F1 Estimate 1-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past week. The change in a company's consensus EPS estimate (or earnings estimate revision) has proven to be strongly correlated with the near-term price movement of its shares. It is an integral part of the Zacks Rank.

If a stock's consensus EPS estimate is \$1.10 now versus \$1.00 a week ago, that will be reflected as a 10% upward revision. If, on the other hand, it went from \$1.00 to 90 cents, that would be a 10% downward revision.

EPS F1 Estimate 4-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past four weeks.

A stock's earnings estimate revision in a 1-week period is important. But it's more meaningful to look at the longer-term revision. And, of course, the 4-week change helps put the 1-week change into proper perspective.

EPS F1 Estimate 12-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past 12 weeks.

This metric essentially shows how the consensus EPS estimate has changed over a period longer than 1 week or 4 weeks.

EPS Q1 Estimate Monthly Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal quarter over the past four weeks.

While the revision in consensus EPS estimate for the current fiscal year is strongly correlated with the near-term price movement of its shares, the estimate revision for the current fiscal quarter is an important metric as well, especially over the short term, and particularly as a stock approaches its earnings date. If a stock's Q1 EPS estimate decreases ahead of its earnings release, it's usually a negative sign, whereas an increase is a positive sign.