

Westlake Chemical(WLK)

\$89.68 (As of 06/28/21)

Price Target (6-12 Months): **\$103.00**

Long Term: 6-12 Months

Zacks Recommendation:

Outperform

(Since: 05/31/21)

Prior Recommendation: Neutral

Short Term: 1-3 Months

Zacks Rank: (1-5)

2-Buy

Zacks Style Scores:

VGM:A

Value: A

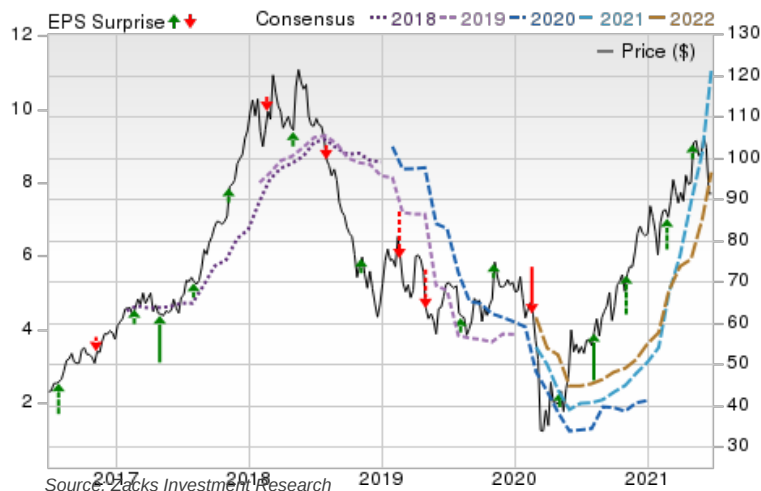
Growth: B

Momentum: A

Summary

Earnings estimates for Westlake Chemical for the second quarter have been increasing over the past month. The company is benefiting from synergies of the Axial acquisition. The buyout has diversified its product portfolio and geographical operations. The NAKAN acquisition has also allowed the company to boost its compounding business globally. Further, the company is seeing favorable demand trends for polyethylene and polyvinyl chloride (PVC) resin. Strong demand in the polyethylene business is likely to continue, especially in food packaging. Also, rising housing starts in the United States augur well for its downstream vinyl products business and domestic demand for PVC. The company should also benefit from its capacity expansion projects. Its strong liquidity position should also allow it to meet its debt obligations.

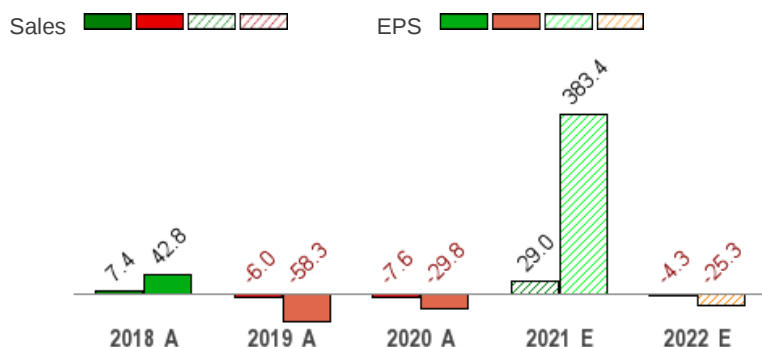
Price, Consensus & Surprise



Data Overview

52-Week High-Low	\$106.47 - \$50.38
20-Day Average Volume (Shares)	543,798
Market Cap	\$11.5 B
Year-To-Date Price Change	9.9%
Beta	1.47
Dividend / Dividend Yield	\$1.08 / 1.2%
Industry	Chemical - Plastic
Zacks Industry Rank	Top 40% (101 out of 251)

Sales and EPS Growth Rates (Y/Y %)



Last EPS Surprise	19.9%
Last Sales Surprise	18.0%
EPS F1 Estimate 4-Week Change	25.5%
Expected Report Date	08/05/2021
Earnings ESP	2.6%

Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2022					9,258 E
2021	2,357 A	2,493 E	2,425 E	2,151 E	9,677 E
2020	1,932 A	1,709 A	1,898 A	1,965 A	7,504 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2022	\$1.50 E	\$2.33 E	\$2.38 E	\$1.86 E	\$8.27 E
2021	\$1.87 A	\$3.54 E	\$3.18 E	\$2.25 E	\$11.07 E
2020	\$0.65 A	\$0.11 A	\$0.60 A	\$0.87 A	\$2.29 A

*Quarterly figures may not add up to annual.

P/E TTM	26.0
P/E F1	8.1
PEG F1	0.6
P/S TTM	1.5

The data in the charts and tables, including the Zacks Consensus EPS and sales estimates, is as of 06/28/2021. The report's text and the

analyst-provided price target are as of 06/29/2021.

Overview

Houston, TX-based Westlake Chemical Corporation is a vertically integrated international producer and supplier of petrochemicals, polymers and building products. The company's range of products includes ethylene, polyethylene, styrene, vinyl intermediates, PVC, PVC Pipe, PVC windows, fence and decking components. The company utilizes most of its internally-produced basic chemicals to make higher value-added chemicals and building products.

The company's products are used across a range of consumer and industrial markets, including flexible and rigid packaging, automotive products, coatings, water treatment, refrigerants, residential and commercial construction. The company generated revenues of \$7,504 million in 2020.

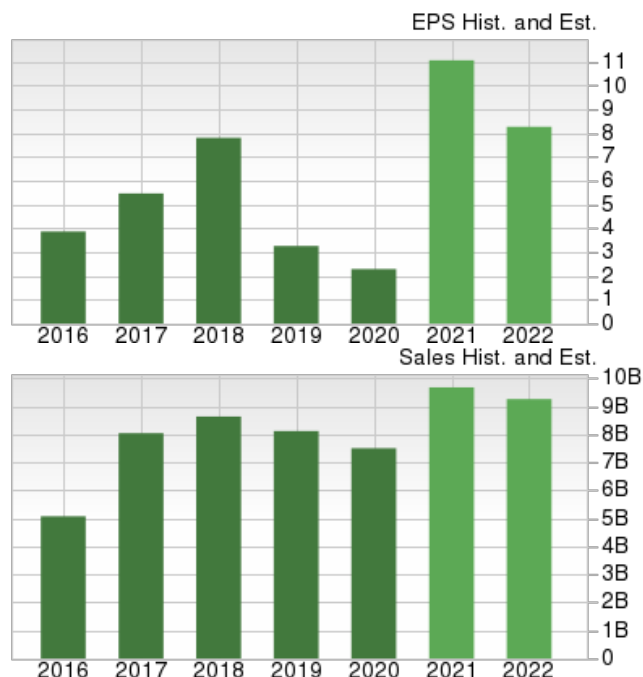
Westlake Chemical operates through two segments – Vinyls and Olefins.

Vinyls: The segment's key products include PVC, chlor-alkali (chlorine and caustic soda) and chlorinated derivative products and ethylene. The company also makes building products fabricated from PVC, including siding, pipe, fittings, fence and decking products, window and door components and film and sheet products. The segment accounted for 80% of total revenues in 2020.

Olefins: The segment offers ethylene, polyethylene, styrene and associated co-products. The company has two ethylene plants, owned by OpCo, two polyethylene plants and one styrene monomer plant at its olefins facility at the Lake Charles site. The segment accounted for 20% of total revenues in 2020.

Westlake Chemical, in September 2016, concluded the acquisition of chemicals and building products maker, Axiall Corporation in an all-cash deal. The transaction represents an enterprise value of \$3.8 billion.

Westlake Chemical, in January 2019, also acquired global compounding solutions business, NAKAN. NAKAN's product portfolio is used in a wide-array of applications in the building & construction, automotive and medical industries. The combination is a strategic move that complements the company's existing compounding business. Through this move, Westlake Chemical's compounding business now has facilities in the United States, Italy, France, Germany, China, Mexico, Japan, Spain and Vietnam.



Source: Zacks Investment Research

Reasons To Buy:

- ▲ Westlake Chemical is well placed to benefit from acquisitions. The Axiall acquisition has diversified the company's product portfolio and geographical operations, creating a North American leader in Olefins and Vinyls. The company has realized \$275 million of cost reduction synergies and savings since the completion of the acquisition. The buyout of the global compounding solutions business, NAKAN also enabled Westlake Chemical to expand its product portfolio and global footprint that the company expects to leverage with its existing operations and drive shareholders value. The acquisition allows the company to boost its compounding business globally along with adding the vital specialty products and technology to the current portfolio.
- ▲ The company is seeing strong global demand for its major products. It is witnessing strong demand trends for polyethylene. The company expects healthy demand in its polyethylene business to continue on account of its focus in specialty applications, especially food packaging and healthcare. Demand for PVC resin and downstream building products is also rising with the easing of coronavirus-induced restrictions. Rising housing starts in the United States, reflecting strength in residential construction activities, also augur well for the company's downstream vinyl products business and domestic demand for PVC. The company's investments to improve the reliability and operational efficiency of its assets will also allow it to fully leverage the improving Vinyls market fundamentals.
- ▲ Westlake Chemical should also benefit from its capacity expansion projects. The company completed the 750-million pound PVC expansion (in Burghausen, Germany, and Geismar, LA) in its Vinyls segment in fourth-quarter 2019. The company, in 2018, also announced a 200-million pound vinyl chloride monomer (VCM) expansion in Geismar and Gendorf, Germany. This additional production capacity will help the company to address the growing needs of its global customers.
- ▲ The company is taking actions to reduce its debt. At the end of the first quarter of 2021, its long-term debt was \$3,547 million, down from \$3,566 million in the sequentially prior quarter. The company's time-interest-earned ratio at the end of the first quarter was 4.8, higher than 3.3 at the end of the fourth quarter. It also ended first-quarter 2021 with a strong cash balance of roughly \$1.4 billion. It also generated operating cash flow of \$265 million in the quarter. The company's strong liquidity position should allow it to meet its debt obligations.

Westlake Chemical is benefiting from synergies of Axiall and NAKAN acquisitions and strong demand for its major products. It should also gain from its capacity expansion projects.

Risks

- Westlake Chemical faces challenges from an upswing in feedstock costs. Prices of feedstocks such as ethylene and ethane are going up amid supply disruptions. The company saw higher feedstock and natural gas fuel costs in the last reported quarter. Moreover, extreme weather across Texas and Louisiana and power outages have disrupted feedstock supply. Shutdown of ethylene plants across the United States is affecting the availability of ethylene. The deep freeze across the U.S. Gulf Coast in February 2021 took three-fourth of the U.S. ethylene capacity offline. Continued impacts of feedstock cost inflation are expected to reflect on the company's margins in the second quarter of 2021.
 - Westlake Chemical's operations are exposed to planned turnarounds and unplanned outages. Turnaround activities unfavorably impacted its olefins operating margins in fourth-quarter 2019. The company also idled some of its small integrated facilities in first-quarter 2020. During third-quarter 2020, the company had to shut down its olefins and vinyl facilities in Louisiana due to Hurricane Laura, resulting in higher maintenance costs and reduced production. The impacts of two hurricanes in Louisiana coupled with the idling of plants in Lake Charles also affected the company's fourth-quarter production and volumes. Both storms impacted its fourth-quarter results by around \$120 million. Moreover, weather-related disruptions in the company's ethylene operations hurt its margins in the first quarter of 2021. The company faced around \$100 million of associated headwinds the first quarter and expects an unfavorable impact of around \$20 million in the second quarter. This may pose some margin headwinds.
 - The company's Olefins segment faces headwinds from new capacity additions. New ethylene and polyethylene capacity additions across North America and Asia have led to additional supply of ethylene and polyethylene in the market. New capacity additions in North America, Asia and the Middle East are likely to further add to supply and weigh on margins in the Olefins unit.
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Last Earnings Report

Westlake Chemical's Q1 Earnings and Sales Beat Estimates

Westlake Chemical posted profits of \$242 million or \$1.87 per share in the first quarter of 2021, up from a profit of \$145 million or \$1.13 per share in the year-ago quarter. Earnings per share topped the Zacks Consensus Estimate of \$1.56.

Sales rose around 22% year over year to \$2,357 million. The figure also surpassed the Zacks Consensus Estimate of \$1,998.2 million.

The company benefited from increased sales prices and margins for most of its key products including polyethylene and PVC resin, and strong demand in downstream building products business in the quarter. These were partly offset by lost production and sales volumes, higher maintenance expense and increased ethane and ethylene feedstock and natural gas fuel costs associated with the winter storm.

Segment Highlights

Sales in the Vinyls segment went up around 21% year over year to \$1,820 million in the reported quarter. Operating income in the segment was \$200 million, up nearly three-fold year over year. The results were driven by higher sales prices and margins for PVC resin, and increased earnings in the downstream building products business.

The Olefins segment generated sales of \$537 million, up roughly 26% year over year. Operating income in the segment was \$180 million, up nearly three-fold year over year. The upside was mainly due to higher sales prices and margins for all products, driven by strong global demand.

Financial Position

Westlake Chemical ended the quarter with cash and cash equivalents of \$1,393 million, down 9% year over year. Long-term debt was \$3,547 million, down around 20% year over year.

Cash flow from operations was \$265 million for the quarter, a roughly four-fold year-over-year increase.

Outlook

Moving ahead, Westlake Chemical sees continued strong global demand in polyethylene, PVC and downstream building products on strong markets for the downstream uses of its products including residential construction, packaging and healthcare. The company remains focused on operating its facilities safely and efficiently. It is also making disciplined investments, launching new products, lowering costs and leveraging its current products and footprint globally.

Quarter Ending **03/2021**

Report Date	May 04, 2021
Sales Surprise	17.96%
EPS Surprise	19.87%
Quarterly EPS	1.87
Annual EPS (TTM)	3.45

Valuation

Westlake Chemical's shares are up 68.9% over the trailing 12-month period. Over the past year, the Zacks Chemicals-Plastics industry and Zacks Basic Materials sector are up 71.2% and up 48.4%, respectively.

The S&P 500 index is up 42.4% in the past year.

The stock is currently trading at 9.42X forward 12-month earnings, which compares to 5.71X for the Zacks sub-industry, 9.5X for the Zacks sector and 21.82X for the S&P 500 index.

Over the past five years, the stock has traded as high as 39.8X and as low as 7.28X, with a 5-year median of 14.14X.

Our Outperform recommendation indicates that the stock will perform above the market. Our \$103 price target reflects 10.82X forward 12-month earnings per share.

The table below shows summary valuation data for WLK:

Valuation Multiples - WLK					
		Stock	Sub-Industry	Sector	S&P 500
P/E F 12M	Current	9.42	5.71	9.5	21.82
	5-Year High	39.8	24.94	17.95	23.83
	5-Year Low	7.28	5.3	9.5	15.31
	5-Year Median	14.14	8.82	12.83	18.05
EV/EBITDA TTM	Current	9.88	6.78	8.28	17.59
	5-Year High	14.41	11.14	17.8	17.74
	5-Year Low	4.5	3.81	6.54	9.63
	5-Year Median	9.27	7.32	9.32	13.48
P/B TTM	Current	1.71	1.05	3.41	7.12
	5-Year High	3.02	2.34	3.68	7.12
	5-Year Low	0.6	0.47	1.22	3.84
	5-Year Median	1.69	1.24	2.26	5.02

As of 06/28/2021

Source: Zacks Investment Research

Industry Analysis Zacks Industry Rank: Top 40% (101 out of 251)



Top Peers

Company (Ticker)	Rec	Rank
Avient Corporation (AVNT)	Outperform	1
Olin Corporation (OLN)	Outperform	1
Ashland Global Holdings Inc. (ASH)	Neutral	3
Celanese Corporation (CE)	Neutral	2
Eastman Chemical Company (EMN)	Neutral	2
Huntsman Corporation (HUN)	Neutral	3
LyondellBasell Industries N.V. (LYB)	Neutral	3
ShinEtsu Chemical Co. (SHECY)	Neutral	3

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

Industry Comparison Industry: Chemical - Plastic				Industry Peers		
	WLK	X Industry	S&P 500	AVNT	LYB	OLN
Zacks Recommendation (Long Term)	Outperform	-	-	Outperform	Neutral	Outperform
Zacks Rank (Short Term)	2	-	-	1	3	1
VGM Score	A	-	-	F	A	B
Market Cap	11.49 B	2.70 B	30.38 B	4.42 B	34.00 B	7.41 B
# of Analysts	4	2	12	4	7	4
Dividend Yield	1.20%	0.27%	1.34%	1.76%	4.44%	1.72%
Value Score	A	-	-	D	A	B
Cash/Price	0.12	0.12	0.06	0.13	0.05	0.03
EV/EBITDA	10.95	9.18	17.31	17.27	13.85	20.07
PEG F1	0.59	0.25	2.10	1.71	0.79	NA
P/B	1.68	1.96	4.06	2.56	3.86	4.36
P/CF	10.73	9.61	17.45	16.28	10.31	6.96
P/E F1	8.10	11.15	21.17	17.06	6.29	8.47
P/S TTM	1.45	0.69	3.39	1.20	1.16	1.19
Earnings Yield	12.34%	9.31%	4.62%	5.87%	15.89%	11.81%
Debt/Equity	0.52	0.45	0.66	1.08	1.56	2.18
Cash Flow (\$/share)	8.36	2.96	6.86	2.97	9.86	6.67
Growth Score	B	-	-	F	B	A
Historical EPS Growth (3-5 Years)	-12.27%	-12.27%	9.59%	-3.82%	-8.34%	2.87%
Projected EPS Growth (F1/F0)	383.32%	183.99%	21.79%	63.87%	188.04%	506.30%
Current Cash Flow Growth	-5.90%	-5.90%	1.02%	24.22%	-30.42%	51.56%
Historical Cash Flow Growth (3-5 Years)	3.99%	-2.48%	7.34%	-1.23%	-10.99%	26.98%
Current Ratio	2.82	2.62	1.39	1.99	1.74	1.65
Debt/Capital	34.20%	33.33%	41.51%	51.83%	61.20%	68.60%
Net Margin	5.39%	1.85%	12.06%	4.82%	8.02%	-10.34%
Return on Equity	6.90%	7.19%	16.59%	11.95%	31.39%	5.74%
Sales/Assets	0.58	0.73	0.51	0.78	0.87	0.74
Projected Sales Growth (F1/F0)	28.96%	22.10%	9.56%	31.72%	47.89%	36.84%
Momentum Score	A	-	-	D	A	D
Daily Price Change	-1.77%	0.00%	0.23%	-1.25%	-0.23%	-0.39%
1-Week Price Change	-0.01%	0.00%	1.56%	3.71%	1.56%	5.21%
4-Week Price Change	-11.09%	-7.21%	2.06%	-6.95%	-9.71%	-4.93%
12-Week Price Change	-0.91%	-4.13%	5.22%	-1.57%	-2.42%	17.31%
52-Week Price Change	65.86%	63.94%	40.53%	85.97%	56.57%	312.06%
20-Day Average Volume (Shares)	543,798	100,811	1,986,546	414,385	1,738,451	1,198,032
EPS F1 Estimate 1-Week Change	2.57%	0.00%	0.00%	0.00%	0.00%	0.00%
EPS F1 Estimate 4-Week Change	25.48%	0.00%	0.00%	-0.04%	8.49%	0.92%
EPS F1 Estimate 12-Week Change	84.25%	18.92%	3.61%	18.13%	38.06%	70.03%

Past performance is no guarantee of future results. Please see important disclosures and definitions at the end of this report.

EPS Q1 Estimate Monthly Change	15.50%	:	0.00%	0.00%	:	0.00%	8.17%	0.59%
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	B
Momentum Score	A
VGM Score	A

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.

Disclosures

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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 mediumterm 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 mostrecent 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 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.