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Xinyi Glass

New PT HK\$11 – Focus on float glass improvement

Xinyi Glass (XYG) is one of China's largest and most diversified glass producers. While the sales decline in auto and construction glass was mildly disappointing, we focus on the improvement in float glass pricing and margins in our positive view on XYG and we set a new Dec-18 PT of HK\$11.0.

- Improvement in float glass offset by other divisions. 1H17 sales growth of 13.4% y/y was 13% lower than our expectations due mainly to the weaker-thanexpected recovery in auto and construction glass. However, GPM for float glass rose to 30% in 1H17 compared to 22.3% in 1H16, which helped lift overall GPM to 36.4% or 0.8% better than expected. Overall 1H17 NP was 8.8% lower than our expectations. We note that our FY17 EPS estimate was 15% higher than consensus (before the results release) and therefore we do not believe the results would be negatively received by consensus market participants. We maintain our focus on the float glass improvement with 1HFY17 GPM rising to 30% (22.3% in 1HFY16) and we expect an FY17 GPM of 32%.
- Lowering sales and net profit to reflect auto and construction sales. We have lowered our sales for FY17 and FY18 by 9% and 7% due to the slower recovery in auto glass and construction glass. Our estimates for float glass remain roughly unchanged. We lower our FY17 and FY18 net profit by 5% and 6%, respectively. Our revised FY17 and FY18 EPS are now 10% and 15% higher than consensus. We set a new Dec-18 PT of HK\$11.0 (prev. Dec-17 PT of HK\$10.5) as the higher PT due to the rollover to Dec-18 year end is offset by earnings downward revisions.
- Our new Dec-18 PT implies 8.1x CY19 P/E. The key downside risks are falling demand for construction glass that could result from a cooling property market in China, and further weakness in PV glass demand from Europe.

Overweight

0868.HK, 868 HK Price: HK\$8.08

Price Target: HK\$11.00 Previous: HK\$10.50

China

SMID-Caps

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Xinyi Glass (Reuters: 0868.HK, Bloomberg: 868 HK)

| HK\$ in mn, year-end Dec | FY14A | FY15A | FY16A | FY17E | FY18E | Company Data | |
|------------------------------------|-----------------------|--------|--------|--------|--------|------------------------------|-----------|
| Revenue (HK\$ mn) | 10,861 | 11,460 | 12,848 | 15,265 | 18,056 | Shares O/S (mn) | 3,687 |
| Net Profit (HK\$ mn) | 1,365 | 2,113 | 3,216 | 4,152 | 4,786 | Market Cap (HK\$ mn) | 29,789 |
| EPS (HK\$) | 0.35 | 0.54 | 0.80 | 1.04 | 1.20 | Market Cap (\$ mn) | 3,814 |
| DPS (HK\$) | 0.15 | 0.27 | 0.40 | 0.52 | 0.60 | Price (HK\$) | 8.08 |
| Revenue growth (%) | 9.3% | 5.5% | 12.1% | 18.8% | 18.3% | Date Of Price | 31 Jul 17 |
| EPS growth (%) | (58.9%) | 54.8% | 49.0% | 29.1% | 15.3% | Free Float(%) | 46.3% |
| ROCE | 6.1% | 8.3% | 13.5% | 14.8% | 15.2% | 3M - Avg daily vol (mn) | 9.10 |
| ROE | 11.1% | 16.9% | 24.8% | 27.8% | 26.7% | 3M - Avg daily val (HK\$ mn) | 69.15 |
| P/E (x) | 23.2 | 15.0 | 10.0 | 7.8 | 6.8 | 3M - Avg daily val (\$ mn) | 8.9 |
| P/BV (x) | 2.6 | 2.5 | 2.5 | 1.9 | 1.7 | HSI | 2,7323.99 |
| EV/EBITDA (x) | 18.3 | 13.7 | 8.7 | 7.2 | 6.5 | Exchange Rate | 7.81 |
| Dividend Yield | 1.9% | 3.3% | 5.0% | 6.4% | 7.4% | Price Target End Date | 31-Dec-18 |
| Source: Company data, Bloomberg, J | J.P. Morgan estimates | | | | | Price Target (HK\$) | 11.00 |

Source: Company data, Bloomberg, J.P. Morgan estimates.

See page 13 for analyst certification and important disclosures, including non-US analyst disclosures.

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| Key catalysts for the stock price: | Upside risks to our view: | Downside risks to our view: |
|--|---|--|
| Price of float glass improving after the slack 1Q season More information on new electric (LCD) glass business to indicate sales and profit contribution Finalization of new downstream solar projects | A rise in float glass price higher than our expectations driven by strong construction demand New customers for the electric glass business are of a better quality than we expect Faster completion of new electric glass lines to boost sales | Further weakness in PV glass demand from Europe Falling demand for construction and float glass that may result from a cooling property market in China |

| Key financial metrics | FY16 | FY17E | FY18E | FY19E |
|----------------------------------|--------|--------|--------|--------|
| Revenues (LC) | 12,848 | 15,265 | 18,056 | 20,384 |
| Revenue growth (%) | 12.1% | 18.8% | 18.3% | 12.9% |
| EBITDA (LC) | 3,991 | 4,788 | 5,458 | 6,263 |
| EBITDA margin (%) | 31.1% | 31.4% | 30.2% | 30.7% |
| Tax rate (%) | 16% | 14% | 13% | 13% |
| Net profit (LC) | 3,216 | 4,152 | 4,786 | 5,398 |
| EPS (LC) | 0.54 | 0.80 | 1.04 | 1.20 |
| EPS growth (%) | 49.0% | 29.1% | 15.3% | 12.8% |
| DPS (LC) | 0.40 | 0.52 | 0.60 | 0.67 |
| BVPS (LC) | 3.30 | 4.18 | 4.78 | 5.45 |
| Operating cash flow (LC mn) | 3,738 | 3,852 | 4,422 | 5,289 |
| Free cash flow (LC mn) | 665 | 1,598 | 1,327 | 2,398 |
| Interest cover (x) | 52 | 339 | 528 | 189 |
| Net margin (%) | 25.0% | 27.2% | 26.5% | 26.5% |
| Sales/assets (X) | 0.57 | 0.58 | 0.60 | 0.61 |
| Debt/equity (%) | 57.9% | 45.7% | 40.0% | 35.1% |
| Net debt/equity (%) | 37.1% | 28.9% | 28.2% | 24.0% |
| ROE (%) | 25% | 28% | 27% | 26% |
| Key model assumptions | FY16E | FY17E | FY18E | FY19E |
| Auto glass capacity (m) | 17.4 | 17.8 | 18.1 | 19.0 |
| Float glass capacity (mn tonnes) | 5.9 | 6.5 | 6.7 | 7.4 |
| Float glass price (HK\$/ton) | 1,573 | 1,887 | 2,076 | 2,076 |

EBITDA

9%

-2%

-3%

4%

FY17E

EPS

7%

-2%

-2%

3%

FY17E

FY18E

8%

-2% -2%

3%

FY18E

10%

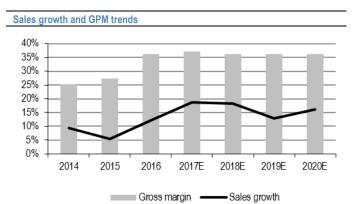
-2%

-3%

4%

Valuation and price target basis

Our PT is derived on a DCF based valuation with a WACC of 11.4% and a terminal growth rate of 3%



Source: Bloomberg, Company and J.P. Morgan estimates.

| EPS (LC) | FY17E | FY18E |
|-----------|-------|-------|
| JPMe old | 1.09 | 1.27 |
| JPMe new | 1.04 | 1.20 |
| % chg | -5% | -6% |
| Consensus | 0.95 | 1.04 |

1% chg in GM Source: J.P. Morgan estimates.

5% chg in float glass price

Sensitivity analysis Sensitivity to

5% chg in fuel cost

5% chg in wage

Peer valuation comparison

Source: Company and J.P. Morgan estimates.

Source: Bloomberg, J.P. Morgan estimates.

| | | | MCAP | | | P/E | PE | | | |
|------------------|---------|------------|---------|------------|--------|------------|------------|---------|---------|---------|
| Company Name | Code | Price (TP) | US\$MM | Vol US\$mn | 3M Chg | 16e (x) | 17e (x) | ROE (%) | P/B (x) | Yld (%) |
| CHINA STATE CONS | 3311 HK | 12.6 | 7,227.1 | 13.5 | (11.0) | 10.5 | 9.4 | 22.0 | 1.7 | 2.6 |
| ND PAPER | 2689 HK | 11.5 | 6,871.3 | 20.5 | 36.7 | 18.1 | 10.7 | 15.3 | 1.4 | 0.8 |
| LM PAPER | 2314 HK | 8.3 | 4,806.2 | 10.3 | 36.2 | 13.5 | 9.2 | 13.4 | 1.9 | 2.5 |
| XINYI GLASS HOLD | 868 HK | 7.9 | 4,066.1 | 8.8 | 18.6 | 9.9 | 7.6 | 24.8 | 1.7 | 5.0 |
| HAITIAN | 1882 HK | 22.3 | 4,562.9 | 4.7 | 17.0 | 19.8 | 16.7 | 18.1 | 2.1 | 1.9 |
| KINGBOARD CHEM | 148 HK | 35.3 | 4,695.0 | 7.9 | 27.0 | 7.2 | 7.3 | 13.5 | 0.6 | 3.7 |
| CHINA LESSO | 2128 HK | 5.4 | 2,159.8 | 2.5 | (12.4) | 7.5 | 6.5 | 18.3 | 1.1 | 3.2 |
| KB LAM | 1888 HK | 10.9 | 4,297.6 | 9.2 | 20.0 | 7.5 | 9.4 | 31.5 | 1.8 | 10.3 |
| Average | | | | | | 11.2 | 9.1 | 17.7 | 1.4 | 4.4 |

Source: Company data, Bloomberg, J.P. Morgan estimates. Share prices are as of intraday price of 31 July 2016

Highlights from the analyst briefing

Management positive on float glass demand. Management remains positive on the sustainability of float glass demand as well as the current healthy margins. Overall construction is rising and the use of double glaze glass for residential and construction (in order to save energy) should boost demand for many years. XYG also mentioned that the quality and price premium of XYG's float glass allows the company to make superior margins while smaller and technically less sophisticated glass makers make significantly lower margins and have little incentive to expand. While new licenses for float glass facilities are increasingly difficult to obtain in the denser richer parts of Coastal China, XYG will still try to expand in order to capture market share and increase profits longer term.

More aggressive float glass expansion. XYG is now planning up to 50% expansion in its float glass capacity from the end of 2017 to the end of 2020. This annualized increase of 14-15% is more aggressive than the average 8-9% CAGR from 2015 to 2016. They did not disclose the exact location of the new expansion (up to 8 new lines) but we expect three quarters to be in China and the rest in Malaysia and SE Asia. It is also uncertain how XYG will be able to obtain new licenses and land for expansion and we look forward to more details in the ultimate location for such expansion to see if it will trigger any oversupply or price declines.

Expansion in Malaysia going well. The company commenced its first float glass and first solar glass lines in Malaysia in late 2016 / early 2017. Management is satisfied with the performance of these lines and mentioned that the production cost is currently cheaper in Malaysia. Management has also planning to add new float and solar production lines in Malaysia over the coming years.

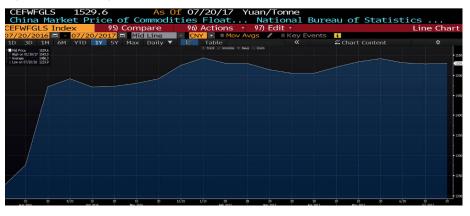
1H17 results review

1H17 Sales growth of 13.4% y/y was 13% lower than our expectations due mainly to weaker than expected recovery in auto and construction glass. However, GPM for float glass rose to 30% in 1H17 compared to 22.3% in 1H16 which helped lift overall GPM to 36.4% or 0.8% better than expected. Overall 1h17 NP was 8.8% lower than our expectations. We note that our FY17 EPS estimate was 15% higher than consensus (before the results release) and therefore we do not believe that the results would be negatively received by consensus market participants.

- Auto glass is still weaker than expected We have seen a 6% y/Y drop in 1H17 auto glass sales as depreciation of many export currencies against the HK\$ dragged on sales In addition, auto glass sales was weak in 2016 due to 3 main factors a) Largest customer PGW in the US had an ownership change mid-2016 and the change in management disrupted purchases from XYG b) a new anti-dumping duty from Brazil resulted in a drop in sales to that country (<3% of auto glass sales) c) rising USD resulted in many emerging markets customers buying less. These negative factors are still hurting sales growth in 1H17.
- **Construction glass hampered by FX.** Sales of construction glass were down 2.7% Y/Y in 1H17 after a 3% drop in sales in 2016. Sales would have been up low single digits in Rmb terms. We look for a seasonally better 2H17 to help achieve flat 2017 y/y sales growth.

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- Float glass price remains high even in seasonally weak 2QCY17. XYG achieved a GPM of 27% in 2016 when the glass price(proxy price below 4.8 mm construction float glass) was around RMB 1,300 per ton. The average price in 2017 was RMB 1,500 per ton with an insignificant change in cost in 1H17 compared to 2016. This is the main reason for the 1H17 GPM of 30% and we currently expect 32% GPM for FY17.

Figure 1: China Float glass price



Source: Bloomberg (CEFWFGLS Index - 4.8mm float)

Table 1: Earnings Revisions

| FY results (HK\$m) | 1H16 A | 1H17 A | Growth | 1H17E | Variance |
|--------------------|--------|--------|--------|-------|----------|
| Turnover* | 5,885 | 6,676 | 13.4% | 7,672 | -13.0% |
| Gross profit | 2,041 | 2,429 | 19.0% | 2,745 | -11.5% |
| GPM* | 34.7% | 36.4% | | 35.8% | |
| EBIT | 1,304 | 1,605 | 23.1% | 2,125 | -24.5% |
| EBITM | 22.2% | 27.7% | | 27.7% | |
| Net profit | 1,369 | 1,636 | 19.5% | 1,794 | -8.8% |
| NP Margin | 23.3% | 24.5% | | 23.4% | |
| EPS | 0.34 | 0.42 | | 0.45 | -7.3% |

Source: Company reports; J.P. Morgan estimates

Lowering sales and net profits to reflect auto and construction sales

We lowered our sales for FY17 and FY18 by 9% and 7% due to the slower recovery in auto glass and construction glass. Our estimates for float glass remain roughly unchanged. We lowered our FY17 and FY18 net profit by 5% and 6% respectively. Our revised FY17 and FY18 EPS is now 10% and 15% higher than consensus. We set a new Dec 18 PT of HK\$11.0 (prev. Dec 17 PT of HK\$10.5) as the higher PT due to the rollover to Dec 18 year end is offset by earnings downward revision.

Table 2: Earnings Revisions

| | New | | 01 | d | Change | |
|--------------------|--------|--------|--------|--------|--------|--------|
| Year to Dec (HKDm) | FY17E | FY18E | FY17E | FY18E | FY17E | FY18E |
| Turnover | 15,265 | 18,056 | 16,750 | 19,357 | -8.9% | -6.7% |
| Gross profit | 5,664 | 6,512 | 6,265 | 7,249 | -9.6% | -10.2% |
| EBIT | 3,903 | 4,473 | 4,310 | 5,062 | -9.4% | -11.6% |
| Net profit | 4,152 | 4,786 | 4,374 | 5,098 | -5.1% | -6.1% |
| EPS (HKD) | 1.04 | 1.20 | 1.09 | 1.27 | -5.1% | -6.1% |
| Assumptions | | | | | | |
| Gross margin | 37.1% | 36.1% | 37.4% | 37.4% | -0.3% | -1.4% |

Source: J.P. Morgan estimates

Other recent updates from investor meetings

- Lifting utilization and not capacity in China. For auto glass and construction glass, XYG is adding little to capacity in 2017 as the current utilization rates (~80% for auto glass and ~70% for construction glass) can be lifted by 5% to 10% easily to meet demand growth for at least another year.
- Specializes in hard to make float glass. XYG normally achieve a selling price that is 15% to 20% higher than the average float glass price by specializing in and dominating certain hard to make sub-categories. While overall float glass market share is 10-12%, XYG believes that its market share for thin auto glass (2-3mm) is near 50% and for ultra-clear float (high end residential and commercial uses) is near 40% in China.
- **Difficult to start new float glass lines.** With margins at near record highs in 1H17, following on a strong 2H16 (31% GPM), it is natural to plan new float glass lines in China. However, XYG believes that greenfield projects would be difficult to obtain approvals (before 2020) as the government is still keen on cutting capacity in the industry. XYG previously planned to acquire small inefficient operators and tear down the old lines and replace with larger lines. However, a more in-depth study has shown that approvals for float glass line renewals (replacements) is almost as hard to obtain as starting new lines. Accordingly, XYG is looking to expand outside of Chine. In our view, this is a phenomenon that all glass manufacturers face and the current high margins for float glass can persist for quite a while.

Valuation and share price analysis

DCF valuation

Our Dec-18 PT is based on a DCF valuation that assumes a market risk premium of 6.0% and a risk free rate of 4.2% (yield on 10-year government notes in China). We have assumed a beta of 1.3 (Bloomberg Beta is 1.3). Accordingly, WACC is assumed at 11.4%. We have estimated free cash flow for XYG until 2020 and assume a terminal growth rate of 3%. The terminal growth is based on the annual growth rate expected in 2020 (the final year of the estimate period) subject to a minimum of 3% and a maximum of 6% depending on the nature of the industry and the level of maturity in China.

We also analyzed the DCF price sensitivity to WACC, and the terminal multiple.

| HK\$ in millions, year-end Dec | 2013 | 2014 | 2015 | 2016E | 2017E | 2018E | 2019E | Terminal |
|---------------------------------|---------|---------|-------------|---------------|---------|---------|---------|----------|
| Cash flow estimates | | | | | | | | |
| Sales | 9,936 | 10,861 | 11,460 | 12,848 | 15,265 | 18,056 | 20,384 | 23,682 |
| EBIT | 2,212 | 1,274 | 1,733 | 3,178 | 3,903 | 4,473 | 5,164 | 6,087 |
| NOPAT | 2,229 | 1,092 | 1,540 | 3,243 | 4,039 | 4,740 | 5,427 | 6,204 |
| Capex, net | (2,913) | (1,715) | (1,914) | (1,853) | (2,040) | (2,866) | (2,670) | (2,399) |
| Depreciation | 639 | 644 | 795 | 812 | 885 | 985 | 1,099 | 1,190 |
| Change in working capital | 129 | 60 | 539 | 13 | (328) | (360) | (259) | (553) |
| Free operating CF (FoCF) | 84 | 82 | 959 | 2,217 | 2,558 | 2,502 | 3,601 | 4,448 |
| DCF Parameters | | | Assumpti | ons | | | | |
| Liabilities as a % of EV | 10% | | Terminal g | rowth | | 3.0% | | |
| WACC | 11.4% | | Risk-free r | ate | | 4.2% | | |
| | | | Market risk | (| | 6.0% | | |
| Enterprise NPV (10-16E) | 48,430 | | Beta | | | 1.30 | | |
| + Net cash (debt), 14E | (5,403) | | Cost of del | bt | | 6.2% | | |
| - Minorities (Market value) | (8) | | | | | | | |
| +/- Other items | 0 | | Implied exi | t P/E multipl | e (x) | 9x | | |
| = Equity value | 43,019 | | • | | . / | | | |
| / Number of shares | 3,915 | | | | | | | |
| = Equity value per share (HK\$) | 11.0 | | | | | | | |

Table 3: XYG - base-case DCF analysis

Source: Company data, J.P. Morgan estimates

Table 4: XYG – Sensitivity analysis

| | | | Terminal growth rate | | | | | |
|-----|-------|------|----------------------|------|------|------|------|------|
| | | 1.5% | 2% | 2.5% | 3.0% | 3.5% | 4.0% | 4.5% |
| | 9.8% | 11.4 | 12.1 | 13 | 14 | 15.2 | 16.5 | 18.1 |
| | 10.3% | 10.6 | 11.3 | 12.1 | 12.9 | 13.9 | 15 | 16.4 |
| с | 10.8% | 10 | 10.5 | 11.2 | 12 | 12.8 | 13.8 | 14.9 |
| WAC | 11.4% | 9.3 | 9.9 | 10.5 | 11.1 | 11.9 | 12.7 | 13.7 |
| 3 | 11.9% | 8.8 | 9.3 | 9.8 | 10.4 | 11 | 11.8 | 12.6 |
| | 12.4% | 8.3 | 8.7 | 9.2 | 9.7 | 10.3 | 11 | 11.7 |
| | 12.9% | 7.9 | 8.2 | 8.7 | 9.1 | 9.7 | 10.2 | 10.9 |

Source: J.P. Morgan estimates.

Table 5: XYG – Revenue mix

| HK\$ MM, year-end 31Dec | 2015 | 2016 | 2017E | 2018E | 2019E | 2020E |
|-------------------------|--------|--------|--------|--------|--------|--------|
| Automobile glass | 3,786 | 3,748 | 3,616 | 3,862 | 4,068 | 4,355 |
| YoY | 5.4% | -1.0% | -3.5% | 6.8% | 5.3% | 7.1% |
| % of total | 33.0% | 29.2% | 23.9% | 21.7% | 20.4% | 18.8% |
| Construction glass | 2,652 | 2,590 | 2,597 | 3,308 | 3,518 | 3,735 |
| YoY | 3.8% | -2.3% | 0.3% | 27.4% | 6.3% | 6.2% |
| % of total | 23.1% | 20.2% | 17.2% | 18.6% | 17.6% | 16.1% |
| Float glass | 4,671 | 6,010 | 7,991 | 9,069 | 10,048 | 11,725 |
| YoY | 9.4% | 28.7% | 32.9% | 13.5% | 10.8% | 16.7% |
| % of total | 40.8% | 46.9% | 52.8% | 51.0% | 50.3% | 50.7% |
| PV glass | 0 | 0 | 0 | 0 | 0 | 0 |
| YoY | 40.8% | 46.9% | 52.8% | 51.0% | 50.3% | 50.7% |
| % of total | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Electronic glass | 351 | 475 | 919 | 1536 | 2337 | 3327 |
| YoY | -20.8% | 35.3% | 93.4% | 67.2% | 52.2% | 42.3% |
| % of total | 3.1% | 3.7% | 6.1% | 8.6% | 11.7% | 14.4% |
| Total revenue | 11,460 | 12,824 | 15,122 | 17,775 | 19,971 | 23,141 |

Source: Company data, J.P. Morgan estimates

Table 6: XYG – P&L statement

| Year-end 31Dec (HK\$MM) | 2015 | 2016 | 2017E | 2018E | 2019E | 2020E |
|-----------------------------|---------|---------|---------|----------|----------|----------|
| Total Revenues | 11,460 | 12,848 | 15,265 | 18,056 | 20,384 | 23,682 |
| YoY change (%) | 5.5% | 12.1% | 18.8% | 18.3% | 12.9% | 16.2% |
| Cost of Goods Sold | (8,328) | (8,189) | (9,601) | (11,544) | (13,009) | (15,093) |
| YoY change (%) | 2.5% | -1.7% | 17.2% | 20.2% | 12.7% | 16.0% |
| Gross Profit | 3,132 | 4,659 | 5,664 | 6,512 | 7,375 | 8,588 |
| YoY change (%) | 14.6% | 48.7% | 21.6% | 15.0% | 13.2% | 16.5% |
| Gross Margin | 27.3% | 36.3% | 37.1% | 36.1% | 36.2% | 36.3% |
| SGA | (1,615) | (1,822) | (2,092) | (2,396) | (2,625) | (2,966) |
| YoY change (%) | -1.4% | 12.9% | 14.8% | 14.5% | 9.6% | 13.0% |
| Other Income/(Expenses) | 215 | 342 | 331 | 357 | 414 | 465 |
| Operating profit | 1,733 | 3,178 | 3,903 | 4,473 | 5,164 | 6,087 |
| EBITDA | 2,313 | 3,991 | 4,788 | 5,458 | 6,263 | 7,277 |
| EBITDA margin | 20.2% | 31.1% | 31.4% | 30.2% | 30.7% | 30.7% |
| Depreciation & Amortization | (580) | (812) | (885) | (985) | (1,099) | (1,190) |
| YoY change (%) | -5.2% | 40.0% | 9.0% | 11.3% | 11.5% | 8.3% |
| EBIT | 1,733 | 3,178 | 3,903 | 4,473 | 5,164 | 6,087 |
| EBIT margin | 15.1% | 24.7% | 25.6% | 24.8% | 25.3% | 25.7% |
| Net Interest Expense | (50) | (77) | (14) | (10) | (33) | (25) |
| Exceptional item | 379 | 159 | 0 | 0 | 0 | 0 |
| Associates | 317 | 563 | 939 | 1,039 | 1,074 | 1,068 |
| Gains/losses | 0 | 0 | 0 | 0 | 0 | 0 |
| Net Income Before Taxes | 2,379 | 3,823 | 4,828 | 5,502 | 6,205 | 7,130 |
| YoY change (%) | 49.3% | 60.7% | 26.3% | 14.0% | 12.8% | 14.9% |
| Tax | (266) | (607) | (676) | (715) | (807) | (927) |
| Effective Tax rate | 13.3% | 16.6% | 14.0% | 13.0% | 13.0% | 13.0% |
| Minority Interests | 0 | 0 | 0 | 0 | 0 | 0 |
| Net Income | 2,113 | 3,216 | 4,152 | 4,786 | 5,398 | 6,203 |
| YoY change (%) | 54.8% | 52.2% | 29.1% | 15.3% | 12.8% | 14.9% |
| Net margin | 18.4% | 25.0% | 27.2% | 26.5% | 26.5% | 26.2% |

Source: Company data, J.P. Morgan estimates

Table 7: Interim estimates

| Year to Dec (HK\$ MM) | 1H16 | 2H16E | 1H17 | 2H17E | 1H18E | 2H18E |
|-------------------------|-------|--------|-------|-------|-------|--------|
| Total Revenues | 5,885 | 6,963 | 6,677 | 8,589 | 7,897 | 10,159 |
| Gross Profit | 2,041 | 2,618 | 2,429 | 3,235 | 2,793 | 3,720 |
| EBIT | 1,304 | 1,875 | 1,605 | 2,298 | 1,840 | 2,634 |
| Net Income Before Taxes | 1,572 | 2,251 | 1,923 | 2,904 | 2,262 | 3,239 |
| Net Income | 1,369 | 1,846 | 1,636 | 2,516 | 1,968 | 2,818 |
| Diluted EPS (HK\$) | 0.342 | 0.462 | 0.409 | 0.629 | 0.492 | 0.705 |
| Ratios | | | | | | |
| Revenue split | 46% | 54.2% | 43.7% | 56.3% | 43.7% | 56.3% |
| GPM | 34.7% | 37.6% | 36.4% | 37.7% | 35.4% | 36.6% |
| EBIT margin | 22.2% | 26.9% | 24.0% | 26.8% | 23.3% | 25.9% |
| NPM | 23.3% | 26.5% | 24.5% | 29.3% | 24.9% | 27.7% |
| YoY | | | | | | |
| Revenue | 20.5% | 5.9% | 13.5% | 23.3% | 18.3% | 18.3% |
| GP | 44.8% | 52.0% | 19.0% | 23.6% | 15.0% | 15.0% |
| EBIT | 38.1% | 137.8% | 23.1% | 22.6% | 14.6% | 14.6% |
| NP | 44.7% | 58.3% | 19.5% | 36.3% | 20.3% | 12.0% |

Source: Company data, J.P. Morgan estimates.

Table 8: XYG – Balance sheet

| Year-end 31Dec (HK\$MM) | 2015 | 2016 | 2017E | 2018E | 2019E | 2020E |
|------------------------------|--------|--------|--------|--------|--------|--------|
| Cash and Cash Equivalents | 1,298 | 2,763 | 2,829 | 2,272 | 2,432 | 3,332 |
| Inventories | 1,223 | 1,321 | 1,569 | 1,856 | 2,095 | 2,434 |
| Accounts receivable | 2,381 | 2,377 | 2,824 | 3,341 | 3,771 | 4,381 |
| Other Current Assets | 93 | 76 | 2,194 | 3,087 | 3,933 | 4,837 |
| Total Current Assets | 4,995 | 6,537 | 9,416 | 10,555 | 12,231 | 14,983 |
| Intangible Assets | 0 | 0 | 0 | 0 | 0 | 0 |
| Property and Equipment, Net | 13,177 | 12,952 | 14,106 | 15,987 | 17,558 | 18,767 |
| Other Assets | 3,249 | 4,534 | 4,761 | 4,999 | 5,249 | 5,511 |
| Non-Current assets | 16,426 | 17,486 | 18,867 | 20,986 | 22,807 | 24,278 |
| Total Assets | 21,422 | 24,022 | 28,284 | 31,541 | 35,038 | 39,261 |
| Accounts Payable | 740 | 789 | 938 | 1,109 | 1,252 | 1,455 |
| Other Accrued Expenses | 1,705 | 1,608 | 2,058 | 2,654 | 3,169 | 3,900 |
| Taxes Payable | 333 | 438 | 507 | 546 | 638 | 758 |
| ST and current LT debts | 2,514 | 3,165 | 2,780 | 2,780 | 2,780 | 2,780 |
| Total Current Liabilities | 4,959 | 6,000 | 6,283 | 7,089 | 7,839 | 8,892 |
| Long-term Debt | 3,514 | 4,509 | 4,895 | 4,895 | 4,895 | 4,895 |
| Other Noncurrent Liability | 223 | 266 | 316 | 374 | 422 | 491 |
| Noncurrent liabilities | 3,737 | 4,775 | 5,211 | 5,269 | 5,317 | 5,385 |
| Total Liabilities | 8,696 | 10,775 | 11,494 | 12,358 | 13,156 | 14,278 |
| Share capital | 3,217 | 3,217 | 3,217 | 3,217 | 3,217 | 3,217 |
| Reserves and Surplus | 9,501 | 11,431 | 13,507 | 15,900 | 18,599 | 21,701 |
| Total Shareholders' Equity | 12,718 | 13,181 | 16,724 | 19,117 | 21,816 | 24,918 |
| Minority Interest | 8 | 66 | 66 | 66 | 66 | 66 |
| Total Shareholders' Equity | 12,726 | 13,247 | 16,790 | 19,183 | 21,882 | 24,984 |
| Total Liabilities and Equity | 21,422 | 24,022 | 28,284 | 31,541 | 35,038 | 39,261 |

Source: Company data, J.P. Morgan estimates

Table 9: XYG – Cash flow statement

| Year-end 31Dec (HK\$ MM) | 2015 | 2016 | 2017E | 2018E | 2019E | 2020E |
|-------------------------------|------------|---------|---------|---------|---------|---------|
| EBIT | 1,733 | 3,178 | 3,903 | 4,473 | 5,164 | 6,087 |
| Depreciation and Amortization | 795 | 812 | 885 | 985 | 1,099 | 1,190 |
| Working Capital Changes | 539 | 13 | (328) | (360) | (259) | (373) |
| Tax Paid | (228) | (266) | (607) | (676) | (715) | (807) |
| Cash Flow From Operations | 2,838 | 3,738 | 3,852 | 4,422 | 5,289 | 6,098 |
| Capital expenditures | (1,914) | (1,853) | (2,040) | (2,866) | (2,670) | (2,399) |
| Investments and others | 243 | (1,116) | 55 | 74 | 72 | 58 |
| Net interest | (50) | (77) | (14) | (10) | (33) | (25) |
| Cash Flow from Investing | (1,721) | (3,046) | (1,999) | (2,803) | (2,631) | (2,366) |
| Free Cash Flow | 1,117 | 692 | 1,853 | 1,619 | 2,658 | 3,732 |
| Dividends | (608) | (1,319) | (1,838) | (2,234) | (2,546) | (2,900) |
| Common issue | <u>`</u> 1 | Ó | Ó | Ó | Ó | Ċ |
| Other Financing | (18) | 2,092 | 50 | 58 | 48 | 68 |
| Contribution from owner | (25) | 0 | 0 | 0 | 0 | (|
| Cash Flow from financing | (650) | 773 | (1,788) | (2,177) | (2,498) | (2,832) |
| Change in cash | 467 | 1,465 | 66 | (557) | 160 | 900 |
| Cash beginning | 831 | 1,298 | 2,763 | 2,829 | 2,272 | 2,432 |
| Foreign exchange changes | 0 | 0 | 0 | 0 | 0 | . (|
| Cash at end | 1,298 | 2,763 | 2,829 | 2,272 | 2,432 | 3,332 |

Source: Company data, J.P. Morgan estimates

Investment Thesis, Valuation and Risks

Xinyi Glass (Overweight; Price Target: HK\$11.00)

Investment Thesis

We believe Xinyi is China's most diversified glass conglomerate. The defensive auto glass aftermarket business and the advanced low-emission construction glass business continued to do well, with stable growth and steady margins. The key driver for growth in the rest of this year is the recovery in margins for the float glass business. In the past, we have seen peak margins for float glass hit 40% when the market is in short supply. We could see margins recover when demand improves, as new supply has slowed to a trickle since the beginning of 2014.

Valuation

Our Dec-18 PT is based on a DCF valuation that assumes a market risk premium of 6.0% and a risk-free rate of 4.2% (the yield on 10-year government notes in China). We assume a beta of 1.3 (Bloomberg beta is 1.3). Accordingly, WACC is assumed at 11.4%. We estimate free cash flow for XYG until 2020 and assume a terminal growth rate of 3.0%. The terminal growth is based on the annual growth rate expected in 2020 (the final year of the estimate period), subject to a minimum of 3% and a maximum of 6%, depending on the nature of the industry and the level of maturity in China.

Risks to Rating and Price Target

Key downside risks include falling demand for construction glass, which may result from a cooling property market in China, and further weakness in PV glass demand from Europe.

Xinyi Glass: Summary of Financials

| Income Statement | FY15A | FY16A | FY17E | FY18E | FY19E | Balance Sheet | FY15A | FY16A | FY17E | FY18E | FY19E |
|-------------------------------------|-----------|---------|---------|---------|------------------|------------------------------|--------|--------|--------|--------|--------|
| Revenue | 11,460 | 12,848 | 15,265 | 18,056 | 20,384 | Cash and cash equivalents | 1,298 | 2,763 | 2,829 | 2,272 | 2,432 |
| y/y Growth | 5.5% | 12.1% | 18.8% | 18.3% | 12.9% | Accounts receivable | 2,381 | 2,377 | 2,824 | 3,341 | 3,771 |
| Adj. EBITDA | 2,528 | 3,991 | 4,788 | 5,458 | 6,263 | Inventories | 1,223 | 1,321 | 1,569 | 1,856 | 2,095 |
| EBITDA y/y Growth | 31.8% | 57.9% | 20.0% | 14.0% | 14.7% | Other current assets | 93 | 76 | 2,194 | 3,087 | 3,933 |
| D&A | (795) | (812) | (885) | (985) | (1,099) | Current assets | 4,995 | 6,537 | 9,416 | 10,555 | 12,231 |
| Adj. EBIT | 1,733 | 3,178 | 3,903 | 4,473 | 5,164 | PP&E | 13,177 | 12,952 | 14,106 | 15,987 | 17,558 |
| Net Interest | (50) | (77) | (14) | (10) | (33) | LT investments | 3,249 | 4,534 | 4,761 | 4,999 | 5,249 |
| Adj. PBT | 2,379 | 3,823 | 4,828 | 5,502 | 6,205 | Other non current assets | 3,249 | 4,534 | 4,761 | 4,999 | 5,249 |
| Тах | (266) | (607) | (676) | (715) | (807) | Total assets | 21,422 | 24,022 | 28,284 | 31,541 | 35,038 |
| Minority Interest | 0 | 0 | 0 | 0 | 0 | | | | | | |
| Adj. Net Income | 2,113 | 3,216 | 4,152 | 4,786 | 5,398 | Short term borrowings | 2,514 | 3,165 | 2,780 | 2,780 | 2,780 |
| | | | | | | Payables | 740 | 789 | 938 | 1,109 | 1,252 |
| Reported EPS | 0.54 | 0.80 | 1.04 | 1.20 | 1.35 | Other short term liabilities | 1,705 | 2,046 | 2,565 | 3,200 | 3,807 |
| Adj. EPS | 0.54 | 0.80 | 1.04 | 1.20 | 1.35 | Current liabilities | 4,959 | 6,000 | 6,283 | 7,089 | 7,839 |
| EPS y/y Growth | 54.8% | 49.0% | 29.1% | 15.3% | 12.8% | Long-term debt | 3,514 | 4,509 | 4,895 | 4,895 | 4,895 |
| 550 | | | | | • • - | Other long term liabilities | 3,737 | 4,775 | 5,211 | 5,269 | 5,317 |
| DPS | 0.27 | 0.40 | 0.52 | 0.60 | 0.67 | Total liabilities | 8,696 | 10,775 | 11,494 | 12,358 | 13,156 |
| Payout ratio | 49.1% | 49.7% | 50.0% | 50.0% | 50.0% | Shareholders' equity | 12,718 | 13,181 | 16,724 | 19,117 | 21,816 |
| | 2.045 | 2 000 | 2 000 | 2 000 | 2 000 | Minority interests | 8 | 66 | 66 | 66 | 66 |
| Shares outstanding | 3,915 | 3,999 | 3,999 | 3,999 | 3,999 | Total liabilities & equity | 21,422 | 24,022 | 28,284 | 31,541 | 35,038 |
| | | | | | | BVPS | 3.25 | 3.30 | 4.18 | 4.78 | 5.45 |
| | | | | | | y/y Growth | 3.1% | 1.4% | 26.9% | 14.3% | 14.1% |
| | | | | | | Net debt/(cash) | 4,730 | 4,911 | 4,846 | 5,403 | 5,243 |
| Cash Flow Statement | FY15A | FY16A | FY17E | FY18E | FY19E | Ratio Analysis | FY15A | FY16A | FY17E | FY18E | FY19E |
| Cash flow from operating activities | 2,838 | 3,738 | 3,852 | 4,422 | 5,289 | EBITDA margin | 22.1% | 31.1% | 31.4% | 30.2% | 30.7% |
| o/w Depreciation & amortization | 795 | 812 | 885 | 985 | 1,099 | EBIT margin | 15.1% | 24.7% | 25.6% | 24.8% | 25.3% |
| o/w Changes in working capital | 539 | 13 | (328) | (360) | (259) | Net profit margin | 18.4% | 25.0% | 27.2% | 26.5% | 26.5% |
| Cash flow from investing activities | (1,671) | (2,969) | (1,985) | (2,792) | (2,598) | | | | | | |
| o/w Capital expenditure | (1,914) | (3,138) | (2,266) | (3,104) | (2,920) | ROE | 16.9% | 24.8% | 27.8% | 26.7% | 26.4% |
| as % of sales | 16.7% | 24.4% | 14.8% | 17.2% | 14.3% | ROA | 10.0% | 14.2% | 15.9% | 16.0% | 16.2% |
| Cash flow from financing activities | (650) | 773 | (1,788) | (2,177) | (2,498) | ROCE | 8.3% | 13.5% | 14.8% | 15.2% | 16.0% |
| o/w Dividends paid | (608) | (1,319) | (1,838) | (2,234) | (2,546) | Net debt/equity | 37.2% | 37.1% | 28.9% | 28.2% | 24.0% |
| o/w Net debt issued/(repaid) | (18) | 2,092 | 50 | 58 | 48 | Sales/Assets (x) | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 |
| Net change in cash | 517 | 1,542 | 80 | (547) | 193 | Interest cover (x) | 50.3 | 51.9 | 338.7 | 528.3 | 189.3 |
| Free cash flow to firm | 968 | 665 | 1,598 | 1,327 | 2,398 | | | | | | |
| y/y Growth | (1138.0%) | (31.4%) | 140.4% | (17.0%) | 80.7% | | | | | | |
| | | | | | | Valuation | FY15A | FY16A | FY17E | FY18E | FY19E |
| | | | | | | P/E (x) | 15.0 | 10.0 | 7.8 | 6.8 | 6.0 |
| | | | | | | P/BV (x) | 2.5 | 2.5 | 1.9 | 1.7 | 1.5 |
| | | | | | | EV/EBITDA (x) | 13.7 | 8.7 | 7.2 | 6.5 | 5.6 |
| | | | | | | Dividend Yield | 3.3% | 5.0% | 6.4% | 7.4% | 8.4% |

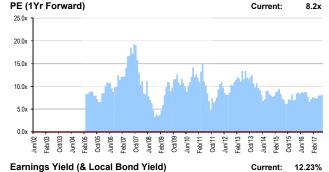
Source: Company reports and J.P. Morgan estimates.

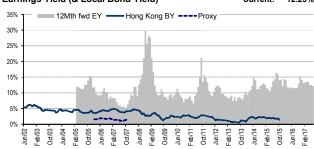
Note: HK\$ in millions (except per-share data).Fiscal year ends Dec. o/w - out of which

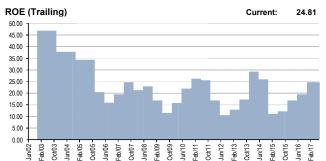
J.P.Morgan

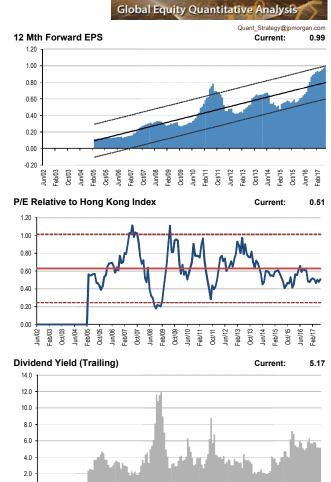
JPM Q-Profile Xinyi Glass Holdings Limited (HONG KONG / Consumer Discretionary) As 0f: 28-Jul-2017 Local Share Price Current: 8.10













Oct/09 Jun/10 ⁻eb/11 Oct/11 Jun/12 -eb/13 Oct/13

⁻eb/15 Oct/15 Jun/16 Feb/17

Jun/14

Jun/08 -eb/09 Oct/09 Jun/10

Jun/06 =eb/07 Oct/07

| Summary | | | | | | | | | | | |
|------------------------------|--------|------------|-------|--------|---------|---------|-------|----------|------------|----------|-----------|
| Xinyi Glass Holdings Limited | | | | | | | | | As Of: | | 28-Jul-17 |
| HONG KONG | TICKER | 868 HK EQU | IITY | | | | | | Local Pric | e: | 8.10 |
| Consumer Discretionary | | | | | | | | | EPS: | | 0.99 |
| | Latest | Min | Max | Median | Average | 2 S.D.+ | 2 S.D | % to Min | % to Max | % to Med | % to Avg |
| 12mth Forward PE | 8.18x | | | | | | | | | | - |
| P/BV (Trailing) | 2.39x | 0.77 | 6.91 | 2.03 | 2.26 | 4.34 | 0.19 | -68% | 189% | -15% | -5% |
| Dividend Yield (Trailing) | 5.17 | 1.78 | 12.00 | 3.72 | 4.12 | 7.83 | 0.40 | -66% | 132% | -28% | -20% |
| ROE (Trailing) | 24.81 | 10.52 | 46.81 | 21.32 | 23.40 | 43.09 | 3.71 | -58% | 89% | -14% | -6% |

0.0

Jun/02

⁻eb/03 Oct/03 Jun/04 --eb/05 -Oct/05 -

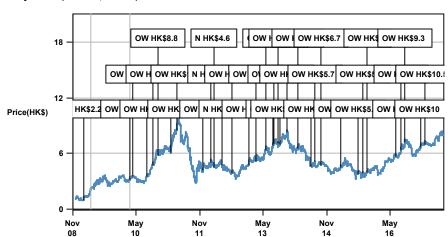
Source: Bloomberg, Reuters Global Fundamentals, IBES CONSENSUS, JPMorgan Quantitative & Derivative Strategy

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- Other Significant Financial Interests: J.P. Morgan owns a position of 1 million USD or more in the debt securities of Xinyi Glass.

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Source: Bloomberg and J.P. Morgan; price data adjusted for stock splits and dividends Initiated coverage Feb 03, 2009.

| Date | Rating | Share Price (HK\$) | Price Target (HK\$) |
|-----------|--------|-----------------------|------------------------|
| 03-Feb-09 | OW | 0.98 | 2.25 |
| 04-Mar-10 | OW | 3.16 | 4.12 |
| 31-Mar-10 | OW | 3.59 | 5.50 |
| 02-Aug-10 | OW | 3.51 | 5.70 |
| 20-Sep-10 | OW | 4.76 | 6.80 |
| 09-Nov-10 | OW | 5.80 | 8.80 |
| 01-Mar-11 | OW | 6.13 | 9.00 |
| 20-Apr-11 | OW | 8.47 | 11.00 |
| 28-Nov-11 | OW | 4.15 | 6.00 |
| 09-Feb-12 | Ν | 5.01 | 5.10 |
| 27-Feb-12 | Ν | 4.52 | 4.60 |
| 07-May-12 | Ν | 4.78 | 5.50 |
| 01-Aug-12 | OW | 3.92 | 5.10 |
| 31-Dec-12 | OW | 4.78 | 5.90 |
| 28-Feb-13 | OW | 5.21 | 6.90 |
| 22-May-13 | WO | 6.30 | 8.00 |
| 23-Jul-13 | OW | 6.85 | 8.70 |
| 31-Jul-13 | OW | 7.11 | 10.00 |
| 04-Sep-13 | OW | 7.07 | 10.50 |
| 26-Sep-13 | OW | 7.01 | 10.90 |
| 25-Nov-13 | OW | 8.33 | 9.80 |
| 26-Feb-14 | OW | 6.61 | 10.00 |
| 20-Jun-14 | OW | 4.68 | 6.50 |
| 24-Jul-14 | OW | 5.12 | 5.70 |
| 15-Sep-14 | OW | 4.78 | 6.70 |
| 02-Mar-15 | OW | 4.55 | 6.10 |
| 28-Jul-15 | OW | 3.80 | 5.50 |
| 10-Sep-15 | OW | 3.88 | 5.20 |
| 15-Oct-15 | OW | 3.97 | 6.00 |
| 17-Jun-16 | OW | 5.67 | 7.00 |
| 02-Aug-16 | OW | 6.40 | 8.20 |
| 07-Sep-16 | OW | 7.26 | 9.30 |
| 18-Jan-17 | OW | 6.68 | 10.00 |
| 28-Feb-17 | OW | 7.04 | 10.50 |

Xinyi Glass (0868.HK, 868 HK) Price Chart



The chart(s) show J.P. Morgan's continuing coverage of the stocks; the current analysts may or may not have covered it over the entire period.

J.P. Morgan ratings or designations: OW = Overweight, N= Neutral, UW = Underweight, NR = Not Rated

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Coverage Universe: Chik, Leon: CAR Inc. (0699.HK), CP Pokphand Co., Ltd (0043.HK), China Lesso (2128.HK), China Lodging Group Limited (HTHT), China Maple Leaf Educational Systems Limited (1317.HK), China State Construction (3311.HK), China Travel International Investments HK Ltd (0308.HK), Fu Shou Yuan International (1448.HK), Fufeng Group (0546.HK), Genscript Biotech Corporation (1548.HK), Haitian International Holdings (1882.HK), Johnson Electric Holdings (0179.HK), Kingboard Chemical (0148.HK), Kingboard Laminates (1888.HK), Lee & Man Paper Manufacturing (2314.HK), New Oriental Education (EDU), Nine Dragons Paper Holdings Ltd (2689.HK), Nord Anglia Education (NORD), PAX Global Technology Ltd (0327.HK), Regina Miracle International Holdings Ltd (2199.HK), Shenzhou International (2313.HK), Skyworth Digital Holdings (0751.HK), TAL Education Group (TAL), TCL Multimedia (1070.HK), Techtronic Industries (0669.HK), Texhong Textile (2678.HK), VTech Holdings (0303.HK), Wasion Group Holdings Ltd (3393.HK), Xinyi Glass (0868.HK), Xinyi Solar (0968.HK), eHi Car Services Ltd (EHIC)

J.P. Morgan Equity Research Ratings Distribution, as of July 03, 2017

| | Overweight | Neutral | Underweight |
|---|------------|---------|-------------|
| | (buy) | (hold) | (sell) |
| J.P. Morgan Global Equity Research Coverage | 44% | 45% | 11% |
| IB clients* | 52% | 50% | 31% |
| JPMS Equity Research Coverage | 44% | 50% | 6% |
| IB clients* | 68% | 65% | 46% |

*Percentage of investment banking clients in each rating category.

For purposes only of FINRA/NYSE ratings distribution rules, our Overweight rating falls into a buy rating category; our Neutral rating falls into a hold rating category; and our Underweight rating falls into a sell rating category. Please note that stocks with an NR designation are not included in the table above.

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