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Packaging Quarterly update

Q4 2018

Packaging trends

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Anti-counterfeit packaging market1

The global anti-counterfeit packaging market is expected to grow at a CAGR of about 12 percent during the forecast period 2018-2023. Anti-counterfeit packaging is an additional measure taken by businesses to maintain the authenticity and safety of their goods. Anti-counterfeit technologies are supported by many favorable government policies in the food & beverage and pharmaceutical packaging sectors.

Global corrugated packaging market²

The global market for corrugated packaging is predicted to grow at an annualized rate of 4 percent, to reach an expected value of \$173.6 million in the year 2020. Due to its low cost and easy handling, corrugated packaging is used for shipments throughout various industries. The rapid shift towards ecommerce and internet shopping is driving significant market growth.

Global contract packaging

market4

In this update:

- Packaging trends
- Economic outlook
- Industry analysis
- Select M&A transactions
- Appendix

This update will focus on news and trends in the following areas:

- Anti-counterfeit packaging
- Corrugated packaging
- Blow-molded plastics
- Contract packaging

Global blow-molded plastics market³

The global blow-molded plastics market is forecast to grow at a CAGR of 4 percent from 2018 to 2022. A key market growth driver, is the rising adoption of and increased demand for PET and bio-PET packaging solutions. Quickly growing demand for water bottles and packed beverages is also expected to contribute to the blow-molded plastics market growth. The global water market is expected to grow over 32 percent from \$207.8 billion in 2017 to \$274.8 billion in 2022.

The global contract packaging market is expected to grow to \$57.9 billion in 2025 from \$31.3 billion in 2018, representing a CAGR of 9.1 percent. Currently, the Food and Beverage Industry is the primary end-market for the contract packaging industry. The Pharmaceutical industry is expected to drive industry growth due to stringent government regulation. Most pharmaceutical companies outsource the packaging of their products to contract packaging businesses that can meet the high

government standard facility

requirements.

In the news

December, 2018 – Greif, Inc. (NYSE: GEF, GEF.B) (Greif) announced that it has entered into a definitive agreement to acquire Caraustar Industries, Inc. (C araustar) in a cash transaction valued at \$1.8 billion. This acquisition is expected to generate annual run-rate cost synergies of approximately \$45 million within 3 years of closing, derived from the combination of back office savings, transportation optimization, recycled fiber savings, operational improvements, and other procurement-related activities. ⁵

December, 2018 – DS Smith plc has announced it's plans to sell its plastics division. According to the director of corporate affairs, Greg Dawson, the Company launched a strategic review of the business in June, through which it generated "a significant amount of interest." The business has been valued by the market at around £500 million (\$637 million).

October, 2018 – Graphic Packaging International, LLC (Graphic Packaging) has completed the acquisition of substantially all the assets of the foodservice business of Letica Corporation, a subsidiary of RPC Group PLC. The acquisition will expand Graphic Packaging's customer base, grow its geographic footprint, and allow the Company to meet the incremental demand for paper cups resulting from the ongoing shift out of polystyrene foam. ⁷

October, 2018 – Deloitte Corporate Finance LLC acted as exclusive financial advisor to Waco, Texas-based Englander dZignPak, LLC, an established provider of displays and retail and industrial packaging, in its sale to Packaging Corporation of America, an Illinois-based corrugated packaging products provider.

Who we are:

Deloitte Corporate Finance LLC is a leading global middle market M&A adviser. The firm's professionals have extensive knowledge in the Packaging space and use their experience to help clients create and act upon opportunities for liquidity, growth, and long-term advantages.

Contacts

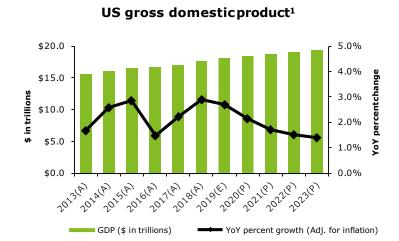
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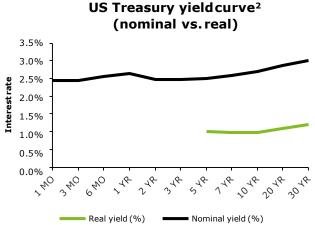
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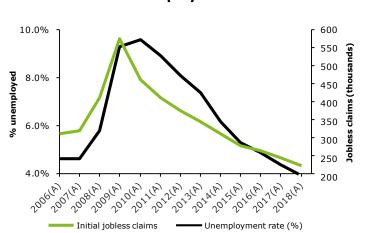


Macroeconomic outlook

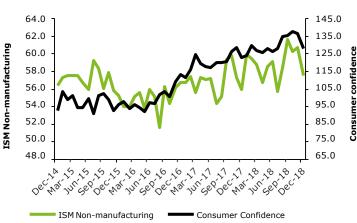




US unemployment rate³

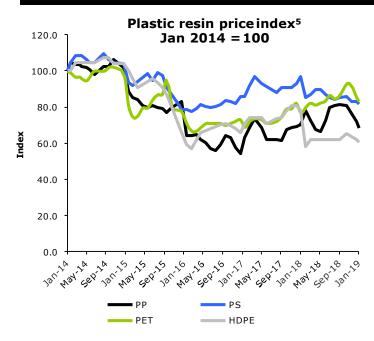


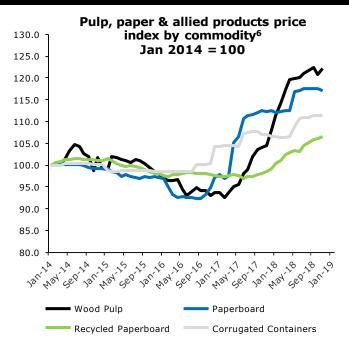
ISM non-manufacturing index and consumer confidence index⁴



*An ISM Non-manufacturing Index value above 50 signals economic expansion.

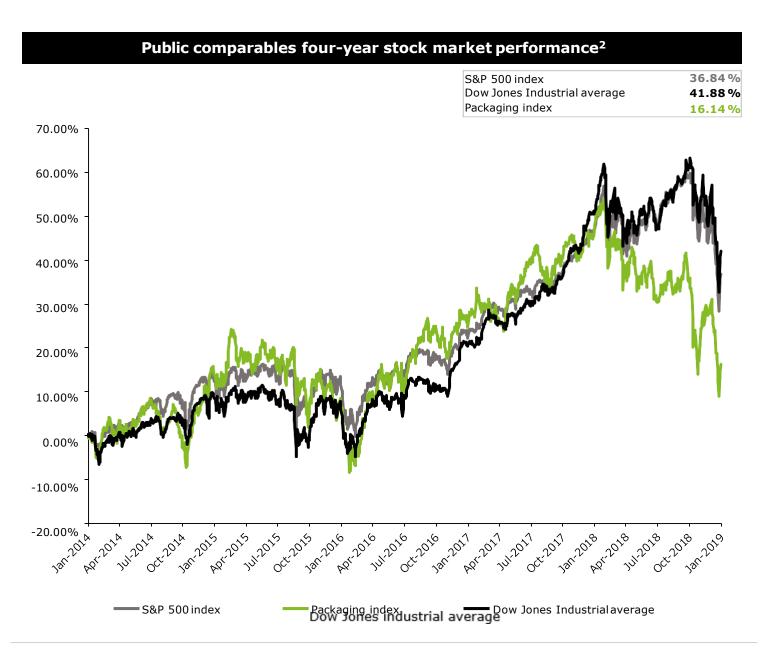
Raw material pricing



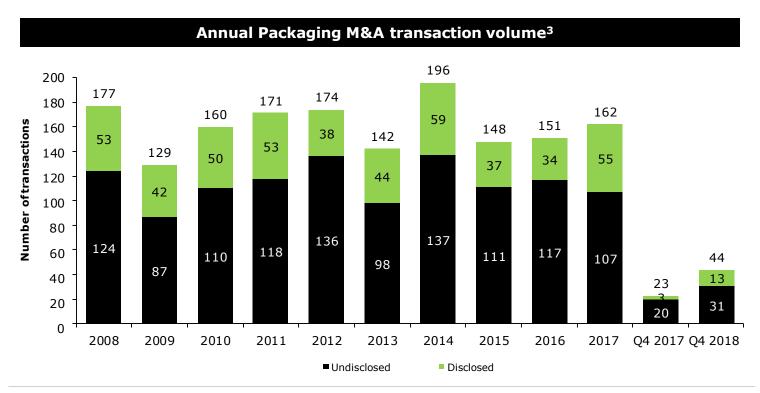


Packaging sector breakdown and trading statistics1

							Last twelve months		NTM	
Sector	Number of companies	% of 52 Week high	Median revenue CAGR (3 Yr)	Median LTM EBITDA	Median EBITDA margin	Median Enterprise v alue (\$M)	EV/ Revenue	EV/ EBITDA	EV/ EBITDA	
Plastic	8	75.6%	6.8%	\$762.6	15.3%	\$6,450.6	1.5 x	10.1 x	9.8x	
Diversified Packaging	7	71.6	4.4	615.8	13.2	5,361.1	1.2	8.9	8.9	
Paper and Paperboard	18	63.3	2.5	680.0	15.5	5,443.5	0.9	6.2	6.4	
Metal and Glass	3	73.0	6.1	1,599.0	15.1	14,760.9	1.4	9.2	8.8	
Packaging index	36	72.3%	5.2%	\$721.3	15.2%	\$5,947.1	1.3 x	9.1 x	8.8 x	



I	Select Packaging M&A transactions ^{1,2}									
	Date	Target/acquiror	Business description	Enterprise value (EV)	EV/ EBITDA					
	Pending	Caraustar Industries, Inc. Greif Packaging LLC	C araustar I ndustries, I nc. manufac tures and s upplies recycled paperboard and c onverted paperboard produc ts. T he c ompany provides consumer packaging products that include folding cartons and set-up boxes for foodservice, pharmaceutical and healthcare, toy and sporting goods, and various other markets. It also offers industrial products, supplies, and packaging solutions. In addition, the c ompany offers rec ycling audits, pre and post-consumer materials, brokering services, mill procurement, etc.	\$1,800.0	10.3 x					
	Dec-18	Plaskolite, LLC PPC Partners	Plas kolite, LLC is North America's largest provider of trans parent thermoplastic sheet products. Plaskolite's customized products are used in a wide variety of applications, including windows, doors, lighting, signs, point-of-purchase displays and bath products. Plas kolite serves a diverse customer base including distributors, O EMs and retailers.	N/A	N/A					
	Nov-18	Best Label Company, Inc. Resource Label Group, LLC	Best Label Company, Inc. offers flexographic printing services, and prints rotary letterpress and pressure sensitive labels. It produces labels for applic ations in various industries, s uc h as food and beverage, health and beauty, pharmaceutical, nutraceutical, agriculture, marketing collateral, and direct mail and forms. Best Label Company, Inc. was founded in 1945 and is based in Cerritos, California.	N/A	N/A					
	Nov-18	Kapstone Paper and Packaging Corporation WestRock Company	KapStone Paper and Packaging Corporation produces and sells a range of containerboards, corrugated products, and specialty paper products. It offers containerboards consisting of linerboard and corrugated medium to manufac ture corrugated containers for packaging products and corrugated products.	5,035.9	12.5					
	Oct-18	Englander dZignPak LLC Packaging Corporation of America	Englander dZignPak, headquartered in Waco, Texas is an established provider of a wide range of corrugated packaging and high-graphic point-of-purchase ("PoP") dis plays, retail packaging, and industrial packaging.	N/A	N/A					





Appendix

Public comparables analysis¹

		LTM	Revenue	LTM EBITDA	EBITDA margin	Enterprise value ("EV")(1)	Last twelve months NTM EV/ EV/ EV/		
	% of 52								
Company (ticker) (\$ in millions)	Week high	revenue	CAGR (3 Yr)				Revenue EBITD		A EBITDA
Plastic									
Amcor Limited (ASX:AMC)	86.0%	¢0 210 1	(1.0)0/	¢4 226 E	14 20/	\$14 E40 G	1 6v	10.0%	9.9x
Avery Dennison Corporation (NYSE:AVY)	72.6	\$9,319.1	(1.0)%	\$1,336.5 928.4	14.3%	\$14,540.6	1.6x	10.9x 10.1	9.9
		7,125.6	5.2		13.0	9,413.2	1.3		
Berry Global Group, Inc. (NYSE:BERY)	77.0	7,869.0	17.3	1,339.0	17.0	11,704.4	1.5	8.7	8.1
Brady Corporation (NYSE:BRC)	91.8	1,176.9	0.9	182.7	15.5	2,142.8	1.8	11.7	11.5
CCL Industries Inc. (TSX:CCL.B)	73.9	3,916.9	20.7	763.2	19.5	7,997.4	2.0	10.5	10.5
Intertape Polymer Group Inc. (TSX:ITP)	74.1	1,002.8	8.4	124.6	12.4	1,208.8	1.2	9.7	8.2
RPC Group Plc (LSE:RPC)	74.1	5,048.3	39.2	762.0	15.1	4,903.9	1.0	6.4	6.5
Winpak Ltd. (TSX:WPK)	94.0	889.8	3.7	197.7	22.2	1,993.8	2.2	10.1	10.1
Median	75.6%				15.3%		1.5x	10.1 x	9.8
Mean	80.4%				16.1%		1.6x	9.8 x	9.3x
Diversified Realizating									
Diversified Packaging DS Smith Plc (LSE:SMDS)	51.3%	7,877.6	17.5 %	\$983.6	12.5%	\$7,405.6	0.9x	7.5x	7.1x
, ,									
Greif, Inc. (NYSE:GEF)	59.1	3,873.8	2.3	512.0	13.2	2,889.6	0.7	5.6	5.2
Huhtamäki Oyj (HLSE:HUH1V)	73.4	3,527.7	5.1	448.4	12.7	4,264.5	1.2	9.5	9.5
Orora Limited (ASX:ORA)	82.5	3,142.0	7.6	325.3	10.4	3,068.7	1.0	9.4	9.3
Sealed Air Corporation (NYSE:SEE)	69.9	4,700.2	(13.5)	795.9	16.9	8,831.9	1.9	11.1	10.2
Silgan Holdings Inc. (NasdaqGS:SLGN)	76.1	4,374.1	4.4	615.8	14.1	5,361.1	1.2	8.7	8.9
Sonoco Products Company (NYSE:SON)	90.5	5,334.3	2.1	723.5	13.6	6,461.1	1.2	8.9	8.3
Median	71.6%				13.0%		1.1x	9.1 x	9.1x
Mean	68.7%				13.3%		1.2x	8.7 x	8.4x
Paper and Paperboard	05.00/	0.1 000 0	40.00/	0004.4	40.70/	\$50.4.5			
Bio Pappel, S.A.B. de C.V. (BMV:PAPPEL *)	85.3%	\$1,382.9	19.2 %	\$231.1	16.7%	\$594.5	0.4x	2.6x	0.0x
Cascades Inc. (TSX:CAS)	61.4	3,505.2	6.4	349.7	10.0	1,979.0	0.6	5.7	5.0
Clearwater Paper Corporation (NYSE:CLW)	48.2	1,732.2	(1.1) 0.5	185.1 620.0	10.7	1,121.4	0.6	6.1	7.3
Domtar Corporation (NYSE:UFS) Empresas CMPC S.A. (SNSE:CMPC)	64.5 73.5	5,409.0 6,048.2	0.5 8.1	1,327.3	11.5 21.9	3,057.7 10,778.0	0.6 1.8	4.9 8.1	4.6 7.3
Graphic Packaging Holding Company (NYSE:GPK)	63.6	5,625.2	10.8	878.1	15.6	6,960.5	1.2	7.9	7.3
International Paper Company (NYSE:IP)	60.3	23,066.0	0.3	3,816.0	16.5	26,593.9	1.2	7.0	6.0
Mayr-Melnhof Karton AG(WBAG:MMK)	83.2	2,731.3	3.3	374.9	13.7	2,489.9	0.9	6.6	6.5
Mondi Limited (JSE:MND)	72.9	8,448.3	2.6	1,766.4	20.9	13,509.5	1.6	7.6	7.1
Nampak Limited (JSE:NPK)	77.4	1,225.2	0.0	179.9	14.7	1,082.3	0.9	6.0	6.3
Neenah, Inc. (NYSE:NP)	61.3	1,038.0	6.4	128.0	12.3	1,236.0	1.2	9.7	9.5
Packaging Corporation of America (NYSE:PKG)	63.6	6,952.4	6.3	1,463.7	21.1	10,033.1	1.4	6.9	6.8
P. H. Glatfelter Company (NYSE:GLT)	40.9	1,642.2	(0.9)	135.1	8.2	839.6	0.5	6.2	9.0
Sappi Limited (JSE:SAP)	77.2	5,806.0	2.5	740.0	12.7	4,600.2	0.8	6.2	5.5
Smurfit Kappa Group plc (ISE:SK3)	62.6	10,217.0	2.5	1,576.2	15.4	9,756.6	1.0	6.2	5.6
Stora Enso Oyj (HLSE:STERV)	55.1	12,066.9	0.8	1,960.0	16.2	11,957.1	1.0	6.1	5.6
Svenska Cellulosa Aktiebolaget SCA (publ) (OM:SCA B) WestRock Company (NYSE:WRK)	63.0 52.8	2,214.7 16,285.1	(44.3) 13.5	481.0 2,829.6	21.7 17.4	6,286.8 15,329.4	2.8 0.9	13.1 5.4	8.8 4.5
Median	63.3%				15.5%		0.9x	6.2 x	6.4x
Mean	64.8%				15.4%		1.1x	6.8 x	6.2x
Metal and Glass	00.05	044 =======	40 4 0/	¢4 004 0	10.15	#04 0 -	4.0	44 -	44 7
Ball Corporation (NYSE:BLL)	90.2%	\$11,579.0	12.1 % 6.1	\$1,894.0 1,500.0	16.4%	\$21,776.0	1.9x	11.5x	11.7x 8.8
Crown Holdings, Inc. (NYSE:CCK) Owens-Illinois, Inc. (NYSE:OI)	69.9 73.0	10,585.0 6,954.0	4.3	1,599.0 988.0	15.1 14.2	14,760.9 8,065.0	1.4 1.2	9.2 8.2	6.0
Median	73.0%				15.1%		1.4x	9.2 x	8.8x
Mean	77.7%				15.2%		1.5x	9.6 x	8.8x

 $\begin{tabular}{ll} \hline \textbf{Footnote:} \\ (1) \ Enterprise value equals market value of equity plus net debt. \\ \end{tabular}$



Recent transactions^{1,2} Last twelve months **Enterprise** Close LTM **EBITDA** EV/ EV/ Announce date date revenue EBITDA margin value(1) revenue EBITDA Target/acquiror Sub-sector Caraustar Industries, Inc. Paper Packaging Dec-18 Pending 1,376.0 174.0 7.9 1,800.0 1.3 10.3 Greif Packaging LLC N/A N/A N/A 300.0 N/A N/A Catawba, South Carolina Paper and Pulp Mill of Oct-18 Dec-18 **Resolute Forest Products Inc.** Paper Packaging New-Indy Containerboard LLC Nov-18 Dec-18 N/A N/A N/A N/A N/A N/A Plaskolite, LLC Rigid Plastic PPC Partners Nov-18 Nov-18 260.0 9.3 28.0 82.5 0.3 8.9 Pollock Investments Inc. Rigid Packaging Landsberg Orora Thermoforming Systems LLC Packaging Equipment Nov-18 Nov-18 N/A N/A N/A N/A N/A N/A Davis-Standard, LLC Rigid Plastic Nov-18 Nov-18 N/A N/A N/A N/A N/A N/A Best Label Company, Inc. Resource Label Group, LLC 3,315.7 404.1 5,035.9 1.5 12.5 Jan-18 Nov-18 8.2 KapStonePaper and Packaging Corporation Paper Packaging WestRock Company 150.5 NA Oct-18 Nov-18 N/A N/A NA Fabrika Hartije a.d./Avala Ada a.d., Beograd Paper Packaging NA Smurfit Kappa Group plc Paper Packaging Oct-18 Oct-18 N/A N/A N/A N/A N/A N/A Bleached Kraft Pulp Mill of CVG, Inc. ND Paper LLC Paper Packaging Jul-18 Oct-18 721.0 66.0 10.9 615.0 0.9 9.3 **Expera Specialty Solutions, LLC** Ahlstrom Munksjo Oyj Oct-18 Oct-18 N/A N/A N/A N/A N/A N/A Englander dZignPakLLC Corrugated Packaging Packaging Corporation of America Oct-18 Oct-18 0.2 0.0 31.1 N/A N/A N/A Manuli Stretch S.p.A. Protective Packaging Credito Fondiario S.p.A.; Oxy Capital Italia Containers and

Oct-18

Aug-18

Packaging

Foodservice Packaging

Oct-18

Oct-18

N/A

110.0

N/A

N/A

N/A

N/A

N/A

95.0

N/A

0.9

N/A

N/A

Footnote:

(1) Enterprise value equals market value of equity plus net debt.



Transparent Container Co., Inc.

Business Of Letica Corporation

Graphic Packaging International, LLC

Substantially All The Assets Of The Foodservice

Rohrer Corporation

Deloitte Corporate Finance dedicated Packaging team



Will Frame - Managing Director (Head of Paper, Plastics & Packaging)

W ill Frame is the Americas leader for Deloitte Corporate Finance LLC (DCF). He also leads DCF's Industrial Products Group. Now based in Chicago, Will has worked professionally in the U.S., Europe, and Asia and specializes in leading complex cross-border M&A transactions.

Will has been a managing director with DCF in the US since October 2000. Prior to that he was an assistant director in the corporate finance division of Deloitte & Touche LLP in the United Kingdom.

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Bill Kerkam - Managing Director

Bill Kerkam is a managing director with Deloitte Corporate Finance LLC (DCF). Prior to joining DCF, Bill led and managed acquisition and divestiture activities for WestRock Company (NYSE: WRK) and MeadWestvaco (NYSE: MWV). His transaction experience in the packaging sector includes leading buy-side and sell-side assignments domestically and abroad, including Western and Eastern Europe, Asia and South America.

Previously, Bill worked for two nationally recognized investment banks focusing on sell-side advisory services to companies in the general manufacturing, services and distribution sectors.

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Select Recent DCF Packaging transactions





















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Sources cited

Page 2:

- Market Research Future. "Anti-counterfeit packaging market Research Report Forecast to 2023." https://www.marketresearchfuture.com/reports/anti-counterfeit-packaging-market-1227, accessed January 7, 2018.
- Research Report Insights. "Corrugated Packaging Market Is Predicted to Expand at a CAGR of 4% by 2020: RRI Says." http://whattheythink.com/news/92916-corrugated-packaging-market-predicted-expand-cagr-4-2020-rri-says/, accessed January 7, 2018.
- Plastics Today. "Blow-molded plastic bottles growing globally at 4% CAGR." https://www.plasticstoday.com/packaging/blow-molded-plastic-bottles-growing-globally-4-cagr/8701377959568, accessed January 7, 2018.
- Research and Markets. "Global Contract Packaging Market by Services, Vertical, Region Market Size, Demand Forecasts, Industry Trends and Updates (2018-2025)." https://www.researchandmarkets.com/research/lrfqql/global_contract?w=4, accessed January 7, 2018.
- 5. PR Newswire. "AFP, Inc. Acquired By Sealed Air". https://www.prnewswire.com/news-releases/afp-inc-acquired-by-sealed-air-300692476.html,accessed January 7, 2018.
- 6. ACH Foam. "Atlas Roofing Corporation Acquires ACH Foam Technologies". https://www.achfoam.com/News-Media/Press-Releases/Press-Releases/Atlas-Roofing-Corporation-Acquires-ACH-Foam-Techno.aspx, accessed January 7, 2018.
- 7. Berry Global. "Berry Global Group, Inc. Announces Acquisition of Laddawn, Inc.". http://ir.berryglobal.com/news-releases/news-releases/news-release-details/berry-global-group-inc-announces-acquisition-laddawn-inc, accessed January 7,2018.

Page 3:

- 1. U.S. Bureau of Economic Analysis. https://www.bea.gov/, accessed January 7, 2018. Data as of December 31, 2018.
- 2. U.S. Department of the Treasury. https://home.treasury.gov/, accessed January 7, 2018. Data as of December 31, 2018.
- 3. U.S. Bureau of Labor Statistics. https://www.bls.gov/, accessed January 7, 2018. Data as of December 31, 2018.
- 4. S&P Capital IQ. https://www.capitaliq.com, accessed January 7, 2018. Data as of December 31, 2018.
- 5. Plastics News. http://www.plasticsnews.com/, accessed January 7, 2018. Data as of December 31, 2018.
- 6. St. Louis Fed. https://www.stlouisfed.org/, accessed January 7, 2018. Data as of December 31, 2018.

Page 4:

- 1. S&P Capital IQ. https://www.capitaliq.com, accessed January 7, 2018. Data as of December 31, 2018.
- 2. S&P Capital IQ. https://www.capitalig.com, accessed January 7, 2018. Data as of December 31, 2018.

Page 5:

- 1. S&P Capital IQ. https://www.capitaliq.com, accessed January 7, 2018. Data as of December 31, 2018.
- 2. Mergermarket. https://www.mergermarket.com, accessed January 7, 2018. Data as of December 31, 2018.
- 3. S&P Capital IQ. https://www.capitaliq.com, accessed January 7, 2018. Data as of December 31, 2018.

<u>Page 6:</u>

1. S&P Capital IQ. https://www.capitaliq.com, accessed January 7, 2018. Data as of December 31, 2018.

Page 7:

- 1. S&P Capital IQ. https://www.capitaliq.com, accessed January 7, 2018. Data as of December 31, 2018.
- 2. Mergermarket. https://www.mergermarket.com, accessed January 7, 2018. Data as of December 31, 2018.



Deloitte Corporate Finance LLC (DCF)

DCF provides deal execution and lead financial advisory services to large corporate, middle market, private equity and venture capital firms. DCF and its affiliates maintain a presence in key US financial centers.

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