Plastics Industry Report July 2020

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PLASTICS INDUSTRY KEY TAKEAWAYS

- Polyether Ether Ketone (PET) volume is expected to grow 6.4% per year through forecast period (Jan. 2020 to Dec. 2027). PET is widely used in engineering applications due to their colorless and organic characteristics.
- Industry Demand Drivers
 - Automotive: Is the fastest growing application segment in the global arena during the forecast period. Auto makers continue to substitute plastic for metal parts driving increased demand.
 - Recycling: As a result of the growing number of recycling plants and stringent regulations for recycling of plastic, recycling is anticipated to be the fastest growing service segment with 4.9% per year over the forecast period.
- **Global Plastics Markets**
 - Global Waste Management: The waste management plastic market size is anticipated to reach USD 42.2 billion by 2027, expanding at a CAGR of 3.1%.
 - Plastic Waste Management: In Asia Pacific, the plastic waste management market is anticipated to grow of 3.4% per year over the forecast period due to rising GDP, growing population, and increasing disposable income in the developing economies such as India, China, and Japan.
 - Global Industrial Plastic: The market size is anticipated to reach USD 103.96 billion by 2027, registering a revenue-based CAGR of 4.6% over the forecast period.
 - Global Antimicrobial Plastic: The global antimicrobial plastic market size is expected to reach USD 44.1 billion by 2027, expanding at a CAGR of 8.2%.



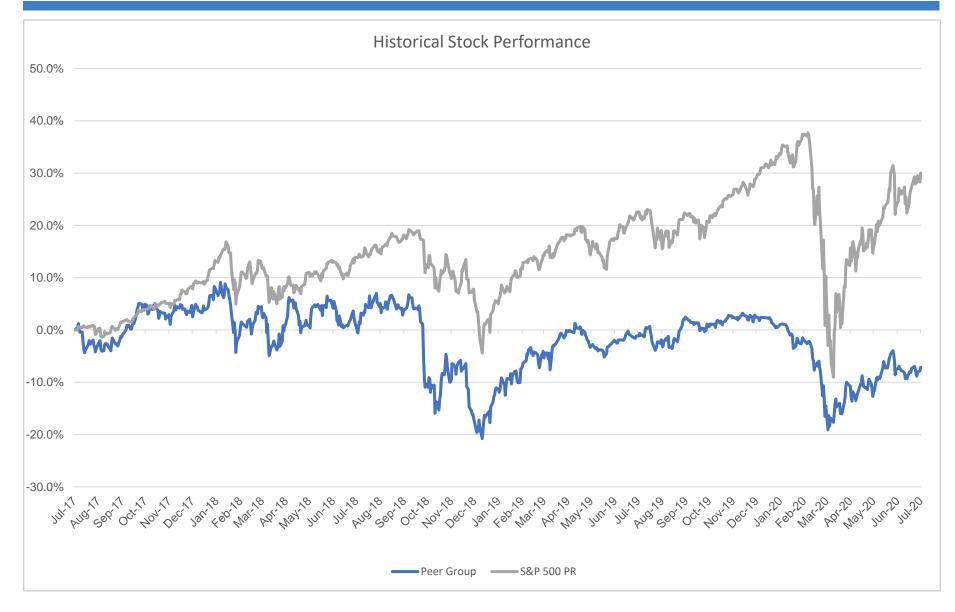
| | | | | _ | | | | Mu | ltiples |
|----------------------------------|------------|-----------|--------------------|------|------------|------|--------------|------------------|-------------------|
| Company Name | Share I | Price | 52 Week Range | Mar | ket Cap | Ente | rprise Value | TTM EV/ Sales | TTM EV/ EBITDA |
| Dow Inc | \$ | 42.44 | 21.95-56.25 | \$ | 29,340,000 | \$ | 39,036,958 | 3 0.9» | c 5.6x |
| Celanese | \$ | 88.84 | 52.70-128.88 | \$ | 9,947,000 | \$ | 12,777,966 | 5 2.1> | c 7.3× |
| Berry Global | \$ | 45.08 | 3 25.00-55.26 | \$ | 5,692,000 | \$ | 15,531,204 | l 1.4> | « 8.6» |
| Sanmina | \$ | 25.56 | 5 18.34-34.96 | \$ | 1,743,000 | \$ | 1,877,885 | 5 0.3» | 4.9x |
| Trinseo | \$ | 23.02 | 14.16-50.14 | \$ | 880,262 | \$ | 1,483,584 | l 0.4> | 4.8x |
| Core Molding Technologies | \$ | 4.35 | 1.03-7.18 | \$ | 34,661 | \$ | 63,376 | 5 0.2x | 4.8x |
| *All values in thousands, exc | cept for s | hare prid | ces and multiples. | Low | | \$ | 63,376 | 0.2> | 4.8 × |
| *Share price and 52-week ro | ange as c | of 07/14/ | /20 | Mec | lian | \$ | 7,327,925 | 0.7> | 5.3 |
| | | | | High | 1 | Ś | 39,036,958 | 2.1> | 8.6 × |
| Dow | | | Berry | | Т | - [- | RINS | EO. | 1 |
| | | | | | 8 | | | CC | DRF |



| | | - | | | | | | |
|---------------------------|---------------|---------------|-----------------|-----------------|------------------|--------------------|------------------------|-----------------|
| Company Name | Sales | EBITDA | Gross Margin | EBIT Margin | EBITDA Margin | Revenue Growth% | Full-Time Employees | Revenue/ FTE |
| Dow Inc | \$ 41,752,00 | 0 \$ 6,971,00 | 0 14.4% | 9.7% | 16.7% | -13.6% | 36,500 |) \$ 1,143.89 |
| Celanese | \$ 6,070,00 | 0 \$ 1,761,00 | 0 24.7% | 23.1 % | 29.0 % | -13.2% | 5 7,700 |)\$ 788.31 |
| Berry Global | \$ 10,747,00 | 0 \$ 1,810,00 | 0 18.6% | 5 8.1% | 5 16.8% | 33.5% | 48,00 |)\$ 223.90 |
| Sanmina | \$ 7,349,92 | 3 \$ 382,24 | 3 7.2% | 2.7% | 5.2% | -8.2% | 43,00 |)\$ 170.93 |
| Trinseo | \$ 3,616,20 | 0 \$ 306,80 | 0 8.3% | 5 1.4% | 8.5% | -19.9% | 5 2,700 |) \$ 1,339.33 |
| Core Molding Technologies | \$ 276,04 | 7 \$ 13,08 | 4 10.6% | 5 - 1.2% | 4.7% | -1.0% | 5 1,82 2 | l \$ 151.59 |
| Low | \$ 276,047 | \$ 13,084 | 7.2% | -1.2% | 4.7 % | -19.9% | 5 1,821 | \$ 152 |
| Median | \$ 6,709,962 | \$ 1,071,622 | 12.5% | 5.4% | 5 12.6% | -10.7% | 5 22,100 | \$ 506 |
| High | \$ 41,752,000 | \$ 6,971,000 | 24.7% | 5 23.1 % | 29.0 % | 33.5% | 48,000 | \$ 1,339 |



PLASTICS INDEX VS. S&P 500



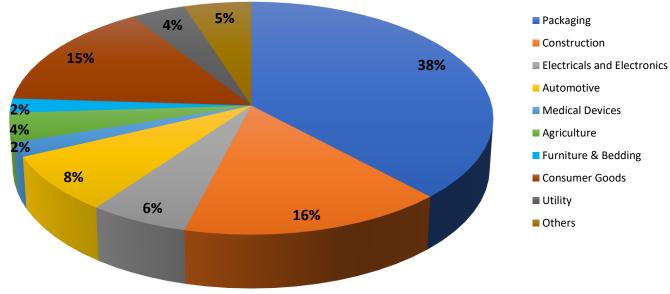
DCA Plastics Index: CE, DOW, BERY, CMT, TSE, SANM



GLOBAL PLASTIC MARKET SHARE, BY APPLICATION, 2019 (%)

| Details | | | |
|--------------------------------|--|--|--|
| 579.7 Billion USD | | | |
| 722.6 Billion USD | | | |
| CAGR of 3.2% from 2020 to 2027 | | | |
| 2019 | | | |
| Asia at 44.3% | | | |
| | | | |

| World Plastics Production | Percentage |
|---------------------------|------------|
| China | 25% |
| Europe | 20% |
| United States | 19.50% |



Source: www.grandviewresearch.com

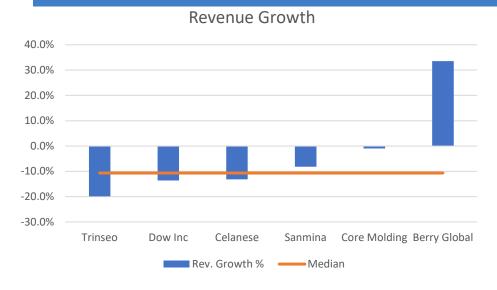


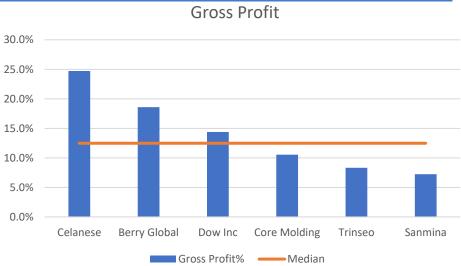
RECENT TRANSACTIONS

| Deal Date | Seller | HQ Location | Revenue | Acquiring Firm | Deal Size |
|-------------|---|--------------------|----------|---|-----------|
| 11-Jun-2019 | Bemis Company | Neenah, WI | 4,063.90 | Amcor (NYS: AMCR)(Ronald Delia) | 6,800.00 |
| 31-Aug-2016 | Axiall | Atlanta, GA | 3,105.10 | Westlake Chemical (NYS: WLK)(Albert Chao) | 3,800.00 |
| 31-Jan-2020 | Reynolds Packaging Group (NAS: REYN) | Lake Forest, IL | 3,032.00 | | 1,226.42 |
| 31-Jul-2019 | Infiltrator Water Technologies | Old Saybrook, CT | 211.00 | Advanced Drainage Systems (NYS: WMS)(D. Scott Barbour) | 1,146.00 |
| 23-Apr-2019 | Next Generation Films | Lexington, OH | 422.00 | Charter NEX Films(Kathy Bolhous), Leonard Green & Partners, Oak Hill Capital | 1,070.00 |
| 27-Feb-2020 | DS Smith Plastics | Romeoville, IL | | Liqui-Box(Ken Swanson), Olympus Partners(Manu Bettegowda) | 585.00 |
| 29-Mar-2019 | Paragon Films | Broken Arrow, OK | 190.20 | Wellspring Capital Management(John Morningstar) | 500.00 |
| 23-Jul-2019 | Revolution Plastics | Little Rock, AR | | Arsenal Capital Partners(Timothy Zappala) | 500.00 |
| 17-Jun-2019 | Amcor (Three Manufacturing Facilities) | Milwaukee, WI | | Genstar Capital(Robert Rutledge), Tekni-Plex(Paul Young) | 215.00 |
| 31-Dec-2019 | Thermoform Engineered Quality | Huntley, IL | | Sonoco (NYS: SON)(Robert Tiede) | 187.29 |
| 13-Mar-2020 | Tekra | New Berlin, WI | | Schweitzer Mauduit International (NYS: SWM) | 170.60 |
| 15-Mar-2019 | Polychem | Mentor, OH | | Manulife Investment Management Private Equity & Credit, The Sterling Group(Gary Rosenthal) | 152.00 |
| 01-Feb-2018 | Omni Plastics | Evansville, IN | | Celanese (NYS: CE)(Scott Sutton) | 146.00 |
| 05-Mar-2020 | Inno-Pak | Delaware, OH | | | 50.00 |
| 27-Mar-2019 | TRU Aseptics | Beloit, WI | | Lyons Magnus(Ed Carolan), Paine Schwartz Partners (Kevin Schwartz), WP Global Partners | 15.00 |
| 02-Nov-2015 | Swisher Hygiene (U.S. operations) | Charlotte, NC | | Ecolab (NYS: ECL)(Douglas Baker) | 40.00 |
| 02-Jan-2018 | Cascade Water Services | Hicksville, NY | 35.00 | Ecolab (NYS: ECL)(Michael Monahan) | |
| 12-Aug-2019 | Chemstar | Lithia Springs, GA | | Ecolab (NYS: ECL)(Bobby Mendez) | |
| 12-Jan-2019 | Lubrizol Advanced Materials | Cleveland, OH | | Dow Chemical (NYS: DOW) | |

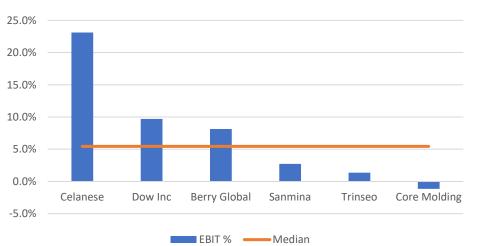


OPERATING METRICS

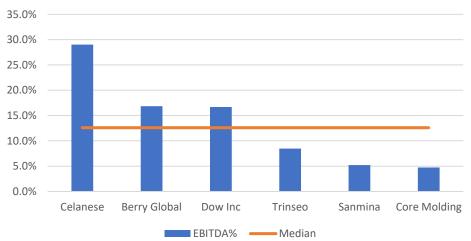




EBIT



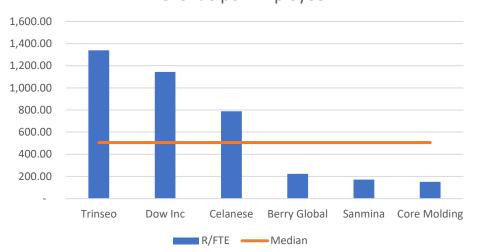
EBITDA

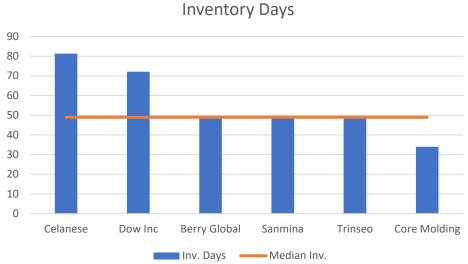




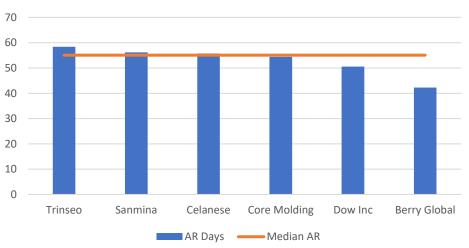
RATIO ANALYSIS

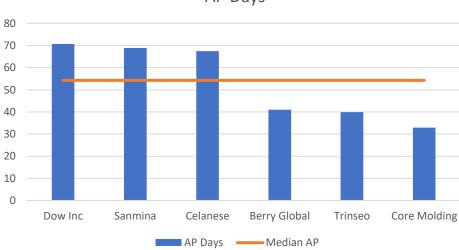
Revenue per Employee





AR Days

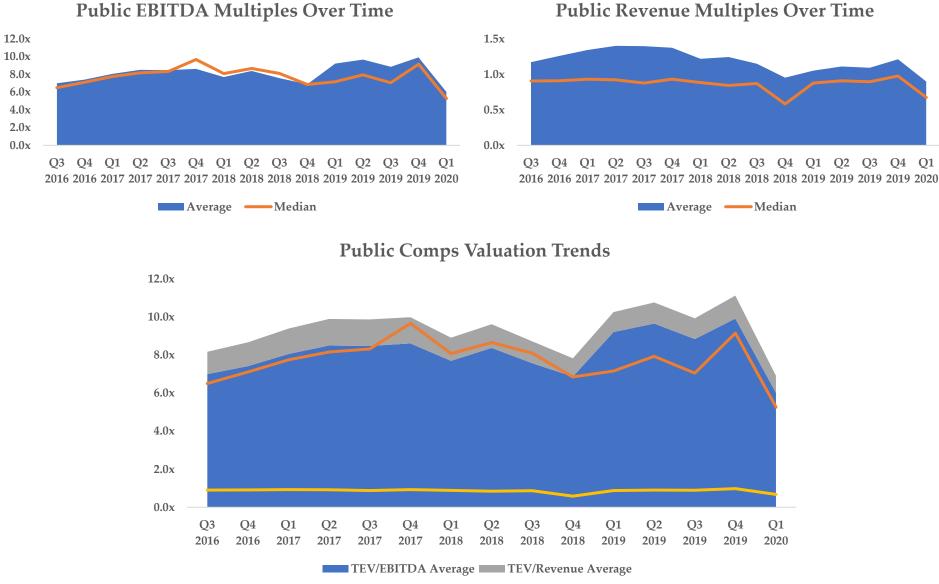




AP Days

Capital advisors. LLC

VALUATION TRENDS

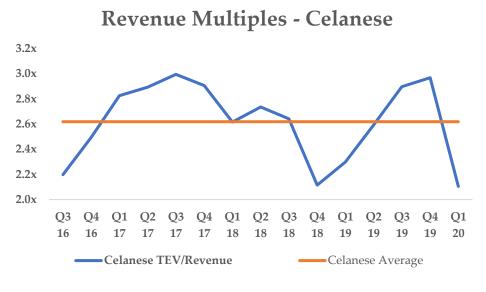




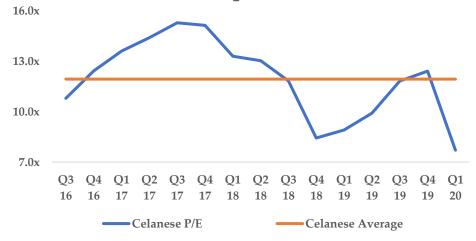
Celanese (NYS: CE)

12.0x

Celanese Corporation (Celanese) is a technology and specialty materials company. The Company's segments include Advanced Engineered Materials, Consumer Specialties, Industrial Specialties, Acetyl Intermediates and Other Activities. They are one of the world's largest producers of chemicals in the acetyl chain, which are used in various end markets, including coatings and adhesives. The company also produces specialty polymers used in the automotive, medical, and consumer end markets as well as cellulose derivatives used in cigarette filters. The company is headquartered in Irving, TX.





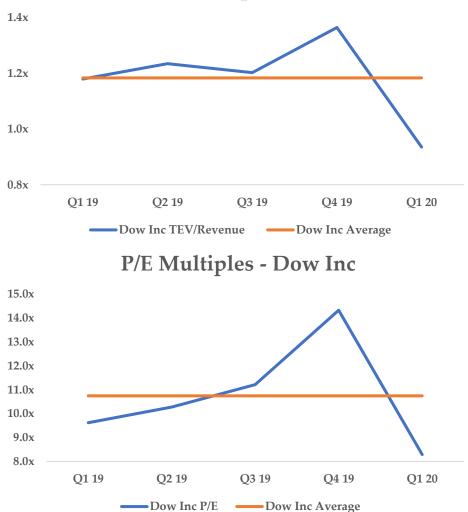


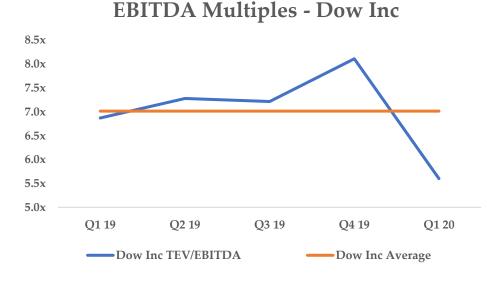
EBITDA Multiples - Celanese



Dow Inc (NYS: DOW)

Dow Inc is a diversified chemical manufacturing company. It is combining science and technology to develop innovative solutions that are essential to human progress. Dow's portfolio is comprised of six global business units, organized into three operating segments: Performance Materials and Coatings, Industrial Intermediates and Infrastructure and Packaging and Specialty Plastics. **Revenue Multiples - Dow Inc**

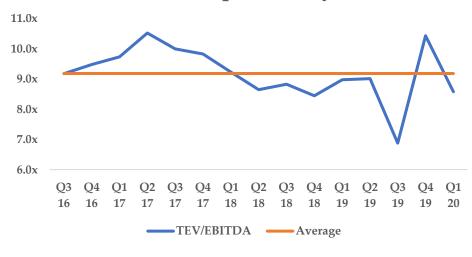


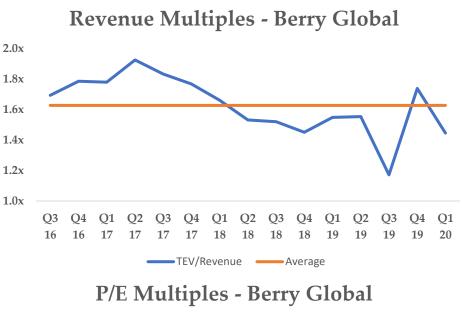


Berry Global (NYS: BERY)

Berry Global is a provider of value-added plastic consumer packaging, non-woven specialty materials and engineered materials. The Company operates through three segments: Health, Hygiene & Specialties, Consumer Packaging, and Engineered Materials. The Consumer Packaging segment primarily consists of containers, foodservice items, closures, overcaps, bottles, prescription vials, tubes, and printed films. The Health, Hygiene & Specialties segment primarily consists of non-woven specialty materials used in hygiene, infection prevention, personal care, industrial, construction, and filtration applications. The Engineered Materials segment primarily consists of pipeline corrosion protection solutions, tapes and adhesives, polyethylene-based film products, and specialty coated and laminated products.

EBITDA Multiples - Berry Global





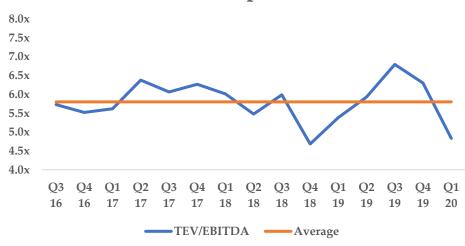


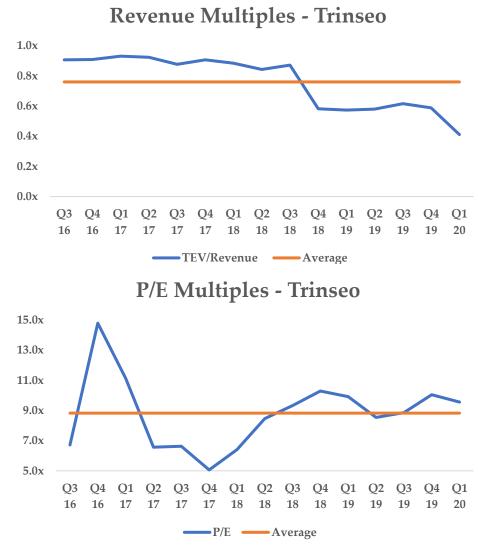


Trinseo (NYS: TSE)

Trinseo SA manufactures synthetic rubber, latex, and plastics products in six segments. latex binders produces binding latex for artificial turf and carpet. The firm manufactures synthetic rubber, used in tires and footwear, in its synthetic rubber segment. Performance plastics creates plastic blends for automotive end markets and consumer products. The polystyrene segment makes polystyrene, which clients use to construct appliances and disposable packaging. The company creates styrene monomer, used to create plastic, in its feedstocks segment. Trinseo and Chevron Phillips co-own the Americas styrenics segment, in which they manufacture polystyrene and styrene monomer for North America.

EBITDA Multiples - Trinseo



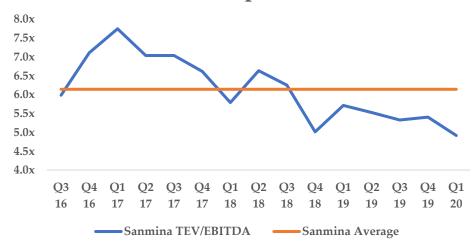


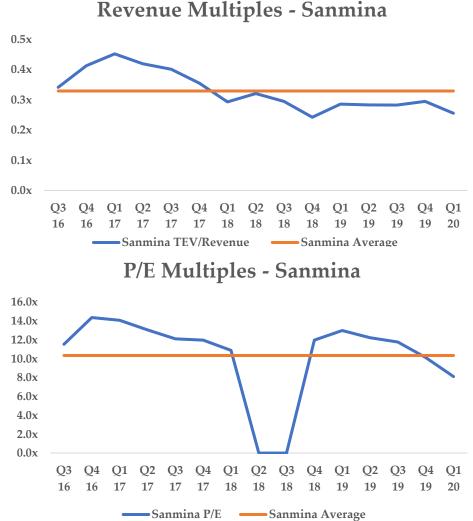


Sanmina (NYS: SANM)

Sanmina Corp is a provider of integrated manufacturing solutions, components, and after-market services to original equipment manufacturers in the communications networks, storage, industrial, defense and aerospace end markets. The company operates in two business segments: Integrated Manufacturing Solutions, which consists of printed circuit board assembly and represents most of the firm's revenue; and Components, Products, and Services, which includes interconnect systems and mechanical systems. The firm generates revenue primarily in the United States, China, and Mexico, but has a presence around the world.







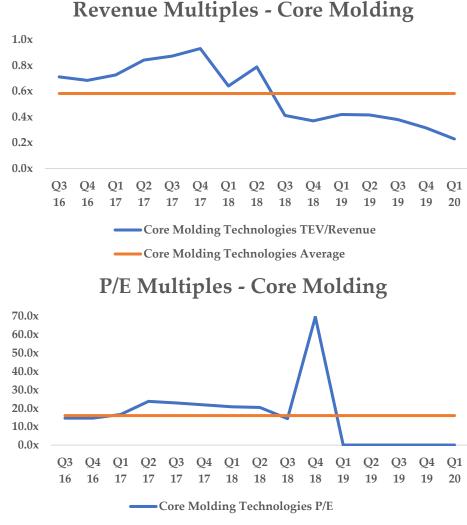
Sanmina had a rough Q1 2018 with negative earnings. This caused their TTM calculations for Q2 2018 and Q3 2019 to have negative earnings, and therefore, P/E ratios were not available for these two quarters. The low earnings in this quarter were caused by the Tax Act, as well as, restructuring expenses undertook to address the relocation and closure of three major manufacturing facilities.



Core Molding Technologies (ASE: CMT)

Core Molding Technologies Inc is a sheet molding compound and molder of fiberglass reinforced plastics manufacturer. The company along with its subsidiaries operates in the plastics market in a family of products known as reinforced plastics. Its products include large-format moldings and fiberglass processes, including compression molding of SMC(Sheet Molding Compound), glass mat thermoplastics, and bulk molding compounds; spray-up, hand-lay-up, and resin transfer molding. The firm operates various production facilities across the United States, Canada, Mexico and other parts of the world, out of which much of the revenue is generated from the United States.

EBITDA Multiples - Core Molding



--- Core Molding Technologies Average

Core Molding Technologies did not have a TTM P/E number starting Q1 2019 because they stopped having positive earnings as of Q3 2018 all the way until the end of 2019. However, they had positive earnings in Q1 2020 despite most of these other competitors struggling during this period.



01

17

O2

17

Q3

17 17

O4

O1

18

O2

18

Core Molding Technologies TEV/EBITDA

- Core Molding Technologies Average

O3

18

O4

18

01

19

O2

19

O3

19

04 01

19

20

19.0x

14.0x

9.0x

4.0x

O3 O4

16

16

Data Source: PitchBook 15

Robert S. Cashion Managing Director, Investment Banking and Advisory Services

Prior to joining Davidson Capital Advisors, Mr. Cashion spent over 20 years in the financial services industry. He manages the firms overall corporate finance and consulting practice where he oversees and executes the firm's investment banking, advisory and capital raising engagements.

Mr. Cashion worked with several financial institutions and consulting firms delivering investment banking, leveraged finance, consulting and restructuring services. He worked with Bank of America Merrill Lynch and its predecessor firms in the High Grade Capital Markets, Corporate Finance and the Special Situations group.

Mr. Cashion has been involved in industry sectors including general industrial, distribution, business services, retail, technology and healthcare. Mr. Cashion holds B.A. Education, B.S. Accounting, and an MBA from the University of North Carolina. He is a Certified Public Accountant and holds FINRA 7, 63 and 79 securities licenses.



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Elizabeth Folger Managing Director, Institutional Client Coverage

Prior to joining Davidson Capital Advisors, Ms. Folger spent 16 years in the financial services industry in a variety of functions, most recently with Bank of America Merrill Lynch and its predecessor firms. She manages the sales and auction processes for the firm's sell side M&A and capital raising engagements. Her deep experience in the sales and trading has resulted in excellent execution for our client's projects.

She worked in the Loan Syndication Sales Group, headquartered in Charlotte, with her primary responsibilities for sales and distribution of syndicated loans for middle market and large corporate credits. Also, Ms. Folger worked on the Corporate Bond Trading desk where she managed and traded risk positions of \$50-\$100 million of intermediate term bank and finance paper.

Ms. Folger has been involved in a variety of sectors including general industrial, distribution, business services, retail, technology and healthcare. She holds a Bachelor of Arts from Hollins University.



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David Airing Analyst, Investment Banking

Prior to joining Davidson Capital Advisors in 2019, Mr. Airing worked in operations at Bank of America for two and a half years. He graduated from the University of South Carolina with a Bachelor of Science degree in Business Administration majoring in Finance and Economics.

Jacob Dailey Analyst, Investment Banking

Prior to joining Davidson Capital Advisors, Mr. Dailey interned with International Electric Power in Pittsburgh, PA. He graduated from Wake Forest University in 2019 with a BA in Economics.

Troy Terveer Analyst, Investment Banking

Prior to joining Davidson Capital in 2020, Mr. Terveer worked with Neptune Wellness Solutions. He graduated from University of South Carolina with a Bachelor of Science in Finance, Operations and Supply Chain

