

# Adhesive Manufacturing: 2002

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## 2002 Economic Census

*Manufacturing*

Industry Series



USCENSUSBUREAU

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



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-- Not applicable for this report.

**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com-panies <sup>2</sup>	All estab-lish-ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
325520, Adhesive manufacturing . . . . . 2002..	455	585	20 367	907 182	12 543	25 060	438 139	3 671 594	3 576 746	7 227 156	169 206
2001..	N	N	22 141	993 336	13 601	28 715	456 456	3 858 696	4 074 141	7 934 413	216 302
2000..	N	N	22 786	980 036	13 569	28 359	443 789	3 777 967	4 165 621	7 935 695	270 009
1999..	N	N	22 556	932 291	13 221	27 963	416 173	3 832 253	3 887 427	7 698 037	321 513
1998..	N	N	22 035	854 765	12 956	27 025	395 280	3 330 230	3 922 263	7 232 049	238 118
1997..	540	689	21 692	831 391	12 623	26 273	383 462	3 383 301	3 938 746	7 312 435	243 177

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>325520, Adhesive manufacturing</b>												
United States.....	1	585	245	20 367	907 182	12 543	25 060	438 139	3 671 594	3 576 746	7 227 156	'169 206
California.....	1	69	26	2 136	100 683	1 202	2 300	42 849	314 397	235 815	549 954	'9 441
Connecticut.....	3	10	3	225	10 801	92	191	3 273	39 962	31 136	70 879	'893
Florida.....	3	12	3	359	17 490	209	426	4 274	39 074	51 994	92 022	'1 712
Georgia.....	—	36	18	1 056	44 118	663	1 351	25 282	200 607	230 427	424 694	'20 772
Illinois.....	—	32	20	1 699	75 996	1 053	2 044	39 388	307 393	349 406	658 884	'25 763
Indiana.....	—	21	6	535	17 093	375	770	9 414	60 249	57 465	116 181	'8 751
Kentucky.....	5	7	5	737	35 399	511	995	22 599	254 093	239 245	490 271	'7 042
Massachusetts.....	—	23	9	841	44 503	425	893	19 465	149 978	106 500	261 309	'6 213
Michigan.....	3	28	13	1 526	65 397	905	1 821	32 786	205 905	273 367	476 151	'11 474
Minnesota.....	5	8	5	212	10 092	131	238	5 071	37 442	41 601	79 127	'760
Missouri.....	1	16	8	1 091	42 474	814	1 546	23 865	217 567	141 662	359 460	'18 118
New Jersey.....	—	44	17	1 221	58 948	773	1 543	28 542	266 089	231 710	498 882	'4 835
New York.....	—	22	9	777	34 979	450	967	13 946	65 682	96 027	160 229	'4 195
North Carolina.....	—	20	10	591	30 398	258	525	9 462	91 157	62 155	153 925	'2 624
Ohio.....	1	50	22	2 314	106 294	1 379	2 646	47 212	400 966	404 315	795 352	'10 648
Pennsylvania.....	—	21	9	750	33 749	461	1 002	17 590	183 111	169 663	350 593	'6 595
South Carolina.....	—	11	5	490	20 974	301	606	9 721	135 929	167 185	303 298	'4 494
Tennessee.....	2	12	7	301	13 345	183	381	5 949	56 974	54 245	111 210	'1 815
Texas.....	1	48	22	1 352	49 712	980	2 056	29 684	288 003	260 891	549 339	'8 997
Washington.....	—	8	2	150	7 173	63	105	2 193	27 132	14 569	41 725	'473
Wisconsin.....	—	13	4	262	14 201	158	288	6 642	58 565	77 143	137 107	'914

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>325520, Adhesive manufacturing</b>	
Companies <sup>1</sup> .....	number.. 455
All establishments <sup>2</sup> .....	number.. 585
Establishments with 1 to 19 employees.....	number.. 340
Establishments with 20 to 99 employees.....	number.. 190
Establishments with 100 employees or more.....	number.. 55
All employees <sup>3</sup> .....	number.. 20 367
Total compensation.....	\$1,000.. 1 123 159
Annual payroll.....	\$1,000.. 907 182
Total fringe benefits.....	\$1,000.. 215 977
Production workers, average for year.....	number.. 12 543
Production workers on March 12.....	number.. 12 478
Production workers on May 12.....	number.. 12 643
Production workers on August 12.....	number.. 12 590
Production workers on November 12.....	number.. 12 396
Production worker hours.....	1,000.. 25 060
Production worker wages.....	\$1,000.. 438 139
Total cost of materials.....	\$1,000.. 3 576 746
Materials, parts, containers, packaging, etc., used.....	\$1,000.. 3 195 316
Resales.....	\$1,000.. 246 984
Purchased fuels.....	\$1,000.. 31 293
Purchased electricity.....	\$1,000.. 49 915
Contract work.....	\$1,000.. 53 238
Quantity of electricity purchased for heat and power.....	1,000 kWh.. 793 759
Quantity of electricity generated less sold for heat and power.....	1,000 kWh.. S
Total value of shipments.....	\$1,000.. 7 227 156
Primary products value of shipments.....	\$1,000.. 6 351 809
Secondary products value of shipments.....	\$1,000.. 537 616
Total miscellaneous receipts.....	\$1,000.. 337 731
Value of resales.....	\$1,000.. 326 974
Contract receipts.....	\$1,000.. 4 822
Other miscellaneous receipts.....	\$1,000.. 5 935
Primary products specialization ratio.....	percent.. 92
Value of primary products shipments made in all industries.....	\$1,000.. 6 987 339
Value of primary products shipments made in this industry.....	\$1,000.. 6 351 809
Value of primary products shipments made in other industries.....	\$1,000.. 635 530
Coverage ratio.....	percent.. 91
Value added.....	\$1,000.. 3 671 594
Total inventories, beginning of year.....	\$1,000.. 631 952
Finished goods inventories.....	\$1,000.. 314 968
Work-in-process inventories.....	\$1,000.. 53 874
Materials and supplies inventories.....	\$1,000.. 263 110
Total inventories, end of year.....	\$1,000.. 691 405
Finished goods inventories.....	\$1,000.. 339 863
Work-in-process inventories.....	\$1,000.. 50 163
Materials and supplies inventories.....	\$1,000.. 301 379
Gross value of depreciable assets (acquisition costs) at beginning of year.....	\$1,000.. '2 809 573
Total capital expenditures (new and used).....	\$1,000.. '169 206
Buildings and other structures (new and used).....	\$1,000.. '23 913
Machinery and equipment (new and used).....	\$1,000.. '145 293
Automobiles, trucks, etc., for highway use.....	\$1,000.. '2 559
Computers and peripheral data processing equipment.....	\$1,000.. '8 363
All other expenditures for machinery and equipment.....	\$1,000.. '134 371
Total retirements.....	\$1,000.. '79 125
Gross value of depreciable assets at end of year.....	\$1,000.. '2 899 654
Depreciation charges during year.....	\$1,000.. '194 510
Total rental payments.....	\$1,000.. 72 414
Buildings and other structures.....	\$1,000.. 48 888
Machinery and equipment.....	\$1,000.. 23 526
Total other expenses <sup>4</sup> .....	\$1,000.. 406 205
Response coverage ratio <sup>5</sup> .....	percent.. 80
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 52 411
Communications services <sup>4</sup> .....	\$1,000.. 11 474
Legal services <sup>4</sup> .....	\$1,000.. 16 635
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 4 970
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 17 181
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 6 004
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 20 183
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 44 835
Taxes and license fees <sup>4</sup> .....	\$1,000.. 20 978
All other expenses <sup>4</sup> .....	\$1,000.. 211 535

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>325520, Adhesive manufacturing</b>											
All establishments .....	1	585	20 367	907 182	12 543	25 060	438 139	3 671 594	3 576 746	7 227 156	'169 206
Establishments with—											
1 to 4 employees .....	7	158	358	16 030	225	423	8 342	57 761	54 255	112 204	'1 289
5 to 9 employees .....	3	80	544	26 856	312	643	12 881	98 466	106 767	204 562	'2 588
10 to 19 employees .....	1	102	1 400	63 692	844	1 664	28 523	197 428	229 968	428 103	'7 550
20 to 49 employees .....	2	124	3 974	170 352	2 427	5 032	80 052	625 181	707 136	1 326 894	'26 338
50 to 99 employees .....	—	66	4 484	207 583	2 780	5 386	101 030	838 714	855 819	1 691 655	'36 389
100 to 249 employees .....	1	49	7 672	333 213	4 812	9 642	169 726	1 512 819	1 430 857	2 931 607	'72 911
250 to 499 employees .....	—	6	1 935	89 456	1 143	2 270	37 585	341 225	191 944	532 131	'22 141
500 to 999 employees .....	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees .....	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	166	440	19 537	281	542	10 840	65 889	62 451	128 339	'1 675

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
325520	Adhesive manufacturing .....	585	20 367	907 182	12 543	25 060	438 139	3 671 594	3 576 746	7 227 156	'169 206
3255201	Natural base glues and adhesives ..	15	372	19 796	167	354	6 643	47 991	52 979	101 605	'1 293
3255204	Synthetic resin and rubber adhesives, including all types of bonding and laminating adhesives .	227	12 109	557 328	7 143	14 089	254 920	2 312 123	2 145 446	4 452 438	'111 062
3255207	Structural sealants (load-bearing) . . .	30	1 397	50 385	989	2 023	29 632	142 234	256 027	393 495	'9 782
325520A	Nonstructural caulking compounds and sealants .....	67	4 268	183 731	2 807	5 735	96 606	842 509	844 188	1 675 349	'39 170

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6a. Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
325520	Adhesive manufacturing	2002.. N 1997.. N	X X	X X	6 987 339 7 374 355
3255201	Natural base glues and adhesives	2002.. N 1997.. N	X X	X X	204 114 322 944
32552011	Natural base glues and adhesives	2002.. N 1997.. N	X X	X X	193 170 288 495
3255201111	Hide (dry forms) animal glues	2002.. mil lb. 9 1997.. 7	X X	X S	15 873 17 600
3255201121	Flexible, nonwarp, and liquid animal glues (not glue stock)	2002.. mil lb. 7 1997.. 7	X X	914.3 54.5	28 834 56 994
3255201131	Protein adhesives, including casein, blood, fish, soybean, albumen, etc.	2002.. mil lb. 8 1997.. 9	X X	P11.0 S	10 641 19 370
3255201141	Dextrine vegetable adhesives	2002.. mil lb. 20 1997.. 20	X X	P148.7 S	47 227 46 833
3255201151	Starch vegetable adhesives	2002.. 12 1997.. 13	X X	X X	37 311 46 794
3255201161	Other natural base glues and adhesives made from natural gums, shellac, silicates, lacquers, and oleoresinous varnishes	2002.. 17 1997.. 20	X X	X X	53 284 100 904
3255201Y	Natural base glues and adhesives, nsk	2002.. N 1997.. N	X X	X X	10 944 34 449
3255201YV	Natural base glues and adhesives, nsk	2002.. N 1997.. N	X X	X X	10 944 34 449
3255204	Synthetic resin and rubber adhesives, including all types of bonding and laminating adhesives	2002.. N 1997.. N	X X	X X	4 227 630 4 338 084
32552041	Epoxy adhesives	2002.. N 1997.. N	X X	X X	462 085 441 264
3255204111	Epoxy adhesives	2002.. 68 1997.. 56	X X	X X	462 085 441 264
32552042	Rubber and synthetic resin combinations	2002.. N 1997.. N	X X	X X	307 862 311 755
3255204271	Rubber and synthetic resin combinations	2002.. mil lb. 40 1997.. 25	X X	S S	307 862 311 755
32552043	Hot melt adhesives, including polyamide, polyolefin, and other hot melts	2002.. N 1997.. N	X X	X X	789 901 682 457
32552043D1	Hot melt adhesives, including polyamide, polyolefin, and other hot melts	2002.. mil lb. 53 1997.. 44	X X	9757.6 S	789 901 682 457
32552044	Adhesive films, all types, including pressure-sensitive structural and nonstructural adhesive films	2002.. N 1997.. N	X X	X X	241 801 429 153
32552044E1	Adhesive films, all types, including pressure-sensitive structural and nonstructural adhesive films	2002.. mil lb. 18 1997.. 21	X X	S S	241 801 429 153
32552045	Vinyl type adhesives	2002.. N 1997.. N	X X	X X	734 530 592 062
3255204541	Polyvinyl acetate adhesives	2002.. mil lb. 51 1997.. 50	X X	914.9 9622.4	546 433 400 149
3255204551	Polyvinyl chloride and copolymer adhesives	2002.. mil lb. 17 1997.. 13	X X	S S	38 198 118 089
3255204561	Other vinyl polymer type adhesives	2002.. mil lb. 25 1997.. 19	X X	S S	149 899 73 824
32552046	Other synthetic resin and rubber adhesives	2002.. N 1997.. N	X X	X X	1 395 220 1 720 574
3255204621	Phenolics and phenolic derivative adhesives, including resorcinol	2002.. mil lb. 6 1997.. 11	X X	S S	68 107 115 109
3255204631	Urea and modified urea adhesives	2002.. mil lb. 5 1997.. 10	X X	D S	D 130 020
3255204681	Acrylic adhesives	2002.. mil lb. 41 1997.. 48	X X	S S	312 153 341 040
3255204691	Cyanoacrylate adhesives	2002.. mil lb. 6 1997.. 11	X X	401.8 34.9	59 401 75 510
32552046A1	Polyester adhesives	2002.. mil lb. 10 1997.. 11	X X	S S	30 350 30 786
32552046B1	Urethane adhesives	2002.. mil lb. 24 1997.. 34	X X	S P143.1	115 178 209 810
32552046C1	Styrenic adhesives	2002.. mil lb. 5 1997.. 13	X X	D P216.5	D 143 669
32552046F1	Latex type rubber cement, for sale as such	2002.. 13 1997.. 25	X X	X X	50 534 264 843
32552046G1	Solvent type rubber cement, for sale as such	2002.. 19 1997.. 35	X X	X X	144 955 180 428
32552046H1	Other synthetic resin and rubber adhesives, including cellulose, nitrocellulose, polyamide, anaerobic, etc.	2002.. 34 1997.. 42	X X	X X	534 023 229 359
3255204Y	Synthetic resin and rubber adhesives, including all types of bonding and laminating adhesives, nsk	2002.. N 1997.. N	X X	X X	296 231 160 819
3255204YV	Synthetic resin and rubber adhesives, including all types of bonding and laminating adhesives, nsk	2002.. N 1997.. N	X X	X X	296 231 160 819
3255207	Structural sealants (load-bearing)	2002.. N 1997.. N	X X	X X	526 171 495 787
32552071	Structural sealants (load-bearing)	2002.. N 1997.. N	X X	X X	454 001 470 267
3255207111	Synthetic base general performance structural (load-bearing) sealants (PVAC, butyl, vinyl, acrylic, neoprene, etc.)	2002.. 15 1997.. 16	X X	X X	107 016 108 034
3255207121	Synthetic base special performance structural (load-bearing) sealants (polysulfide, silicone, epoxy, urethane, etc.)	2002.. mil lb. 34 1997.. 20	X X	S S	284 486 321 259

See footnotes at end of table.



**Table 6a. Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
325520	Adhesive manufacturing—Con.				
3255207	Structural sealants (load-bearing)—Con.				
32552071	Structural sealants (load-bearing)—Con.				
3255207131	Synthetic base structural (load-bearing) sealant preformed tapes (butyl, polybutene, polyisobutylene, etc.) .....	2002.. 15 1997.. 3	X X	X X	62 499 40 974
3255207Y	Structural sealants (load-bearing), nsk .....	2002.. N 1997.. N	X X	X X	72 170 25 520
3255207YVW	Structural sealants (load-bearing), nsk .....	2002.. N 1997.. N	X X	X X	72 170 25 520
325520A	Nonstructural caulking compounds and sealants .....	2002.. N 1997.. N	X X	X X	1 477 459 1 436 177
325520A1	Nonstructural caulking compounds and sealants .....	2002.. N 1997.. N	X X	X X	1 204 459 1 419 946
325520A111	Natural base nonstructural (nonload-bearing) caulks, modified and unmodified oil base .....	2002.. 30 1997.. 21	X X	X X	541 391 77 317
325520A121	Natural bituminous base (coal tar or asphalt) nonstructural (nonload-bearing) caulking compounds and sealants .....	2002.. 12 1997.. 18	X X	X X	27 831 63 881
325520A131	Synthetic base nonstructural (nonload-bearing) general performance sealants (PVAC, butyl, vinyl, acrylic, neoprene, etc.) .....	mil lb. 2002.. 35 1997.. 58	X X	S S	356 988 741 892
325520A141	Synthetic base nonstructural (nonload-bearing) special performance sealants (polysulfide, silicone, epoxy, urethane, etc.) .....	mil lb. 2002.. 34 1997.. 44	X X	S S	202 283 484 239
325520A151	Synthetic base nonstructural (nonload-bearing) sealant preformed tapes (butyl, polybutene, polyisobutylene, etc.) .....	2002.. 11 1997.. 11	X X	X X	75 966 52 617
325520AY	Nonstructural caulking compounds and sealants, nsk .....	2002.. N 1997.. N	X X	X X	273 000 16 231
325520AYVW	Nonstructural caulking compounds and sealants, nsk .....	2002.. N 1997.. N	X X	X X	273 000 16 231
325520W	Adhesive manufacturing, nsk, total .....	2002.. N 1997.. N	X X	X X	551 965 781 363
325520WY	Adhesive manufacturing, nsk, total .....	2002.. N 1997.. N	X X	X X	551 965 781 363
325520WYVW	Adhesive manufacturing, nsk, for nonadministrative-record establishments .....	2002.. N 1997.. N	X X	X X	426 772 510 584
325520WYVY	Adhesive manufacturing, nsk, for administrative-record establishments .....	2002.. N 1997.. N	X X	X X	125 193 270 779

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3255201	Natural base glues and adhesives	
	United States .....	2002 .. 204 114
	California .....	1997 .. 322 944
	Georgia .....	2002 .. 12 172
	Illinois .....	1997 .. 16 967
	New Jersey .....	2002 .. 12 643
	New York .....	1997 .. 20 763
	North Carolina .....	2002 .. 32 580
	Ohio .....	1997 .. 18 344
	Pennsylvania .....	2002 .. 6 992
	Tennessee .....	1997 .. 51 193
	Tennessee .....	2002 .. 13 446
	Tennessee .....	1997 .. 19 950
	Tennessee .....	2002 .. 19 773
3255204	Synthetic resin and rubber adhesives, including all types of bonding and laminating adhesives	
	United States .....	2002 .. 4 227 630
	California .....	1997 .. 4 338 084
	Connecticut .....	2002 .. 346 007
	Florida .....	1997 .. 280 535
	Georgia .....	2002 .. 31 001
	Illinois .....	1997 .. 115 154
	Indiana .....	2002 .. 49 901
	Kentucky .....	1997 .. 27 764
	Massachusetts .....	2002 .. 301 592
	Michigan .....	1997 .. 230 466
	Missouri .....	2002 .. 461 906
	New Jersey .....	1997 .. 517 177
	New York .....	2002 .. 30 934
	North Carolina .....	1997 .. 47 708
	Ohio .....	2002 .. 206 347
	Pennsylvania .....	1997 .. 135 237
	South Carolina .....	2002 .. 200 721
	Tennessee .....	1997 .. 172 637
	Texas .....	2002 .. 238 887
	Wisconsin .....	1997 .. 286 359
	Wisconsin .....	2002 .. 164 526
	Wisconsin .....	1997 .. N
	Wisconsin .....	2002 .. 201 345
	Wisconsin .....	1997 .. 224 683
	Wisconsin .....	2002 .. 78 221
	Wisconsin .....	1997 .. 147 521
	Wisconsin .....	2002 .. 120 847
	Wisconsin .....	1997 .. 15 451
	Wisconsin .....	2002 .. 397 721
	Wisconsin .....	1997 .. 538 512
	Wisconsin .....	2002 .. 331 134
Wisconsin .....	1997 .. 243 356	
Wisconsin .....	2002 .. 291 684	
Wisconsin .....	1997 .. 102 519	
Wisconsin .....	2002 .. 59 863	
Wisconsin .....	1997 .. 112 605	
Wisconsin .....	2002 .. 334 046	
Wisconsin .....	1997 .. 178 948	
Wisconsin .....	2002 .. 117 480	
Wisconsin .....	1997 .. 93 377	
3255207	Structural sealants (load-bearing)	
	United States .....	2002 .. 526 171
	Illinois .....	1997 .. 495 787
	Indiana .....	2002 .. 13 685
	Maryland .....	1997 .. N
	Missouri .....	2002 .. 24 206
	New Jersey .....	1997 .. N
	Ohio .....	2002 .. 2 549
	Texas .....	1997 .. N
	Texas .....	2002 .. 30 755
325520A	Nonstructural caulking compounds and sealants	
	United States .....	2002 .. 1 477 459
	California .....	1997 .. 1 436 177
	Illinois .....	2002 .. 117 690
	Indiana .....	1997 .. 119 885
	Michigan .....	2002 .. 81 491
	Missouri .....	1997 .. 45 230
	New Jersey .....	2002 .. 29 938
	Ohio .....	1997 .. 28 437
	Pennsylvania .....	2002 .. 91 469
	South Carolina .....	1997 .. 97 485
South Carolina .....	2002 .. 100 507	
South Carolina .....	1997 .. 136 394	
South Carolina .....	2002 .. 174 401	
South Carolina .....	1997 .. 250 598	
South Carolina .....	2002 .. 19 311	
South Carolina .....	1997 .. 82 317	
South Carolina .....	2002 .. 5 037	

See footnotes at end of table.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997—Con.**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
325520A	Nonstructural caulking compounds and sealants—Con.	
	United States—Con.	
	Texas .....	
		1997.. N
		2002.. 141 052
		1997.. 77 869

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
325520	<b>Adhesive manufacturing</b>		
00900001	Total materials .....	X	3 195 316
	.....2002..	X	3 561 013
	.....1997..	X	
32521135	Polyvinyl acetate resins, purchased .....	mil lb. 2002..	240.1
	.....1997..	358.5	89 992
32521109	All other plastics resins, purchased .....	mil lb. 2002..	325.3
	.....1997..	350.1	179 651
	.....2002..	X	194 035
	.....1997..	X	268 424
32521205	Synthetic rubber .....	mil lb. 2002..	S
	.....1997..	S	106 112
31122115	Starch and dextrin .....	mil lb. 2002..	159.0
	.....1997..	S	207 343
32510095	All other miscellaneous industrial organic chemicals (including synthetic organic) .....	2002..	32 187
	.....1997..	X	42 953
	.....2002..	X	348 333
	.....1997..	X	676 336
325000A3	Industrial inorganic chemicals .....	2002..	X
	.....1997..	X	270 671
32410015	Refined petroleum products (mineral oil, naphtha solvents, petrolatum, waxes, etc.) .....	2002..	X
	.....1997..	X	323 612
21230003	Nonmetallic minerals and earths, ground or otherwise treated, used as extenders and fillers .....	2002..	X
	.....1997..	X	293 835
	.....2002..	X	237 836
	.....1997..	X	98 340
32610032	Plastics containers (including bottles, jars, tubes, tubs, etc.) .....	2002..	X
	.....1997..	X	143 000
33240000	Metal containers .....	2002..	X
	.....1997..	X	N
32220003	Paper and paperboard boxes (including fiber cans, tubes, and drums) .....	2002..	X
	.....1997..	X	42 561
	.....2002..	X	123 882
	.....1997..	X	78 735
00970099	All other materials and components, parts, containers, and supplies .....	2002..	X
	.....1997..	X	997 236
00971000	Materials, ingredients, containers, and supplies, nsk .....	2002..	X
	.....1997..	X	541 683
	.....2002..	X	500 279
	.....1997..	X	645 002

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.